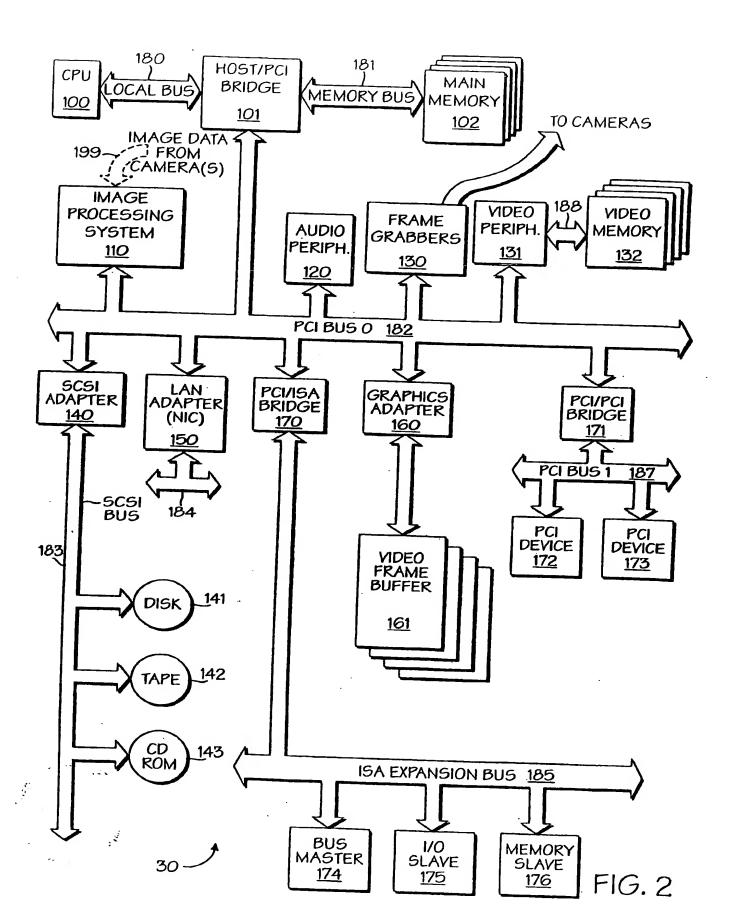


FIG. 1



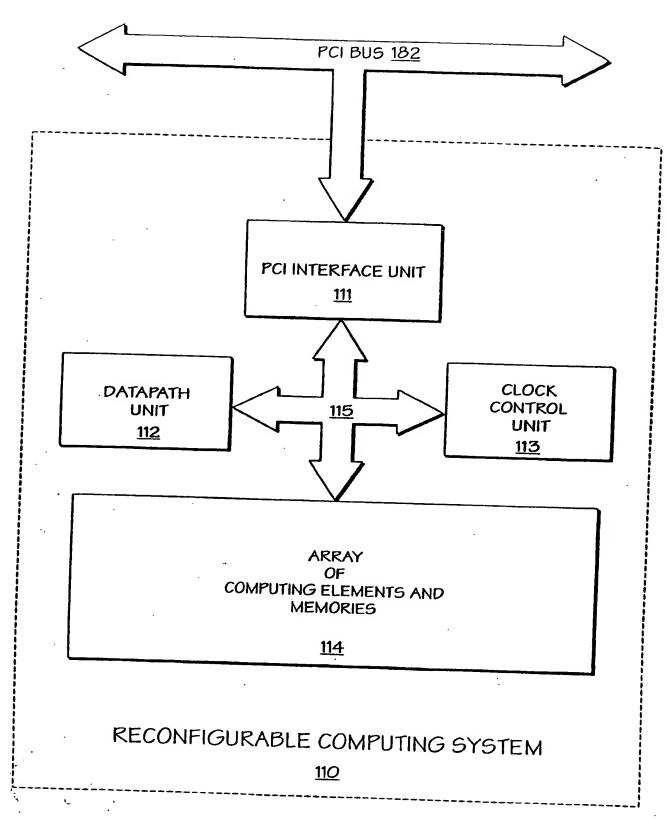
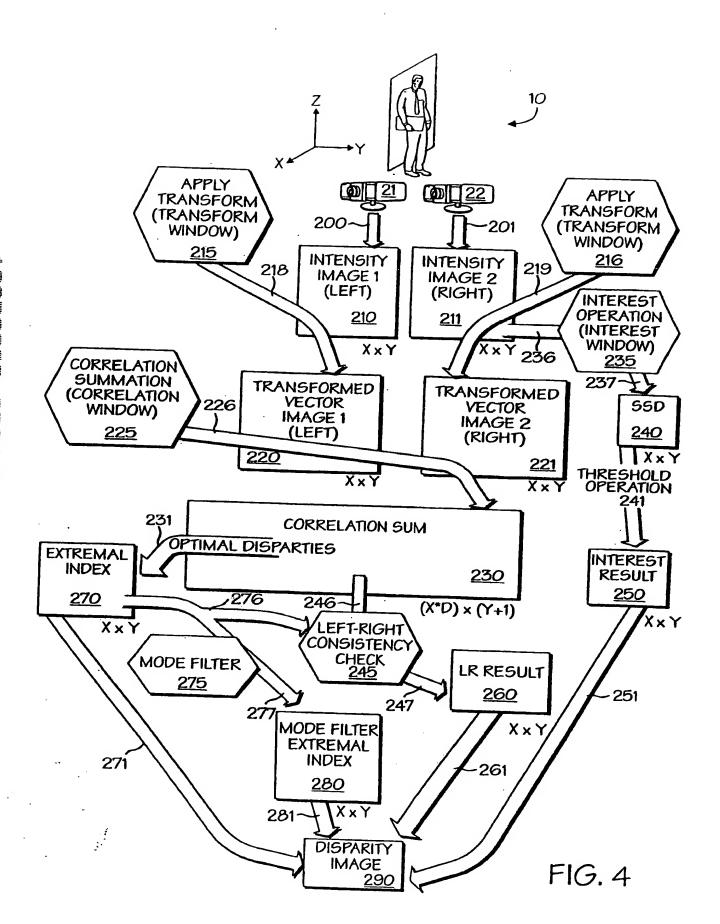
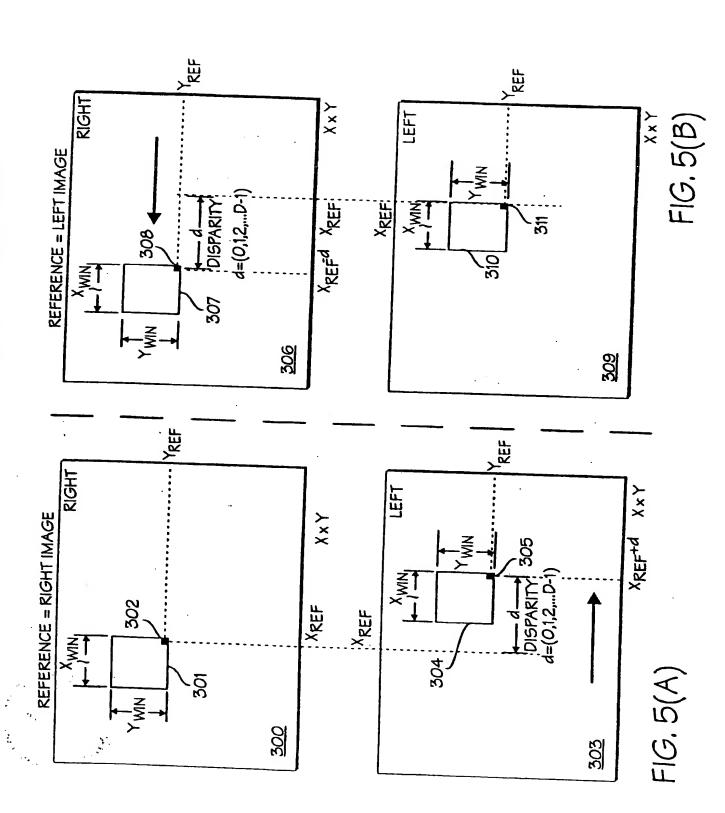
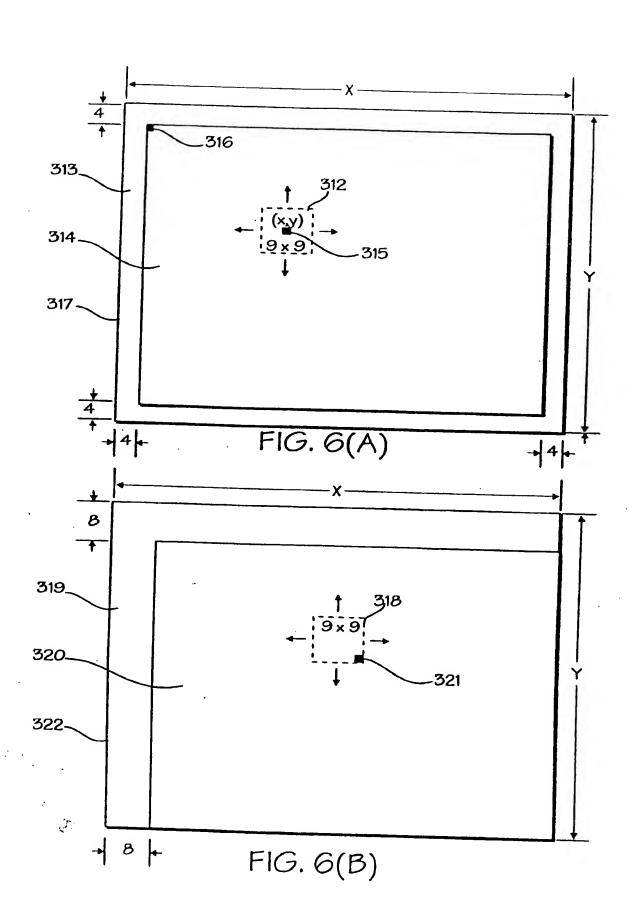


FIG. 3



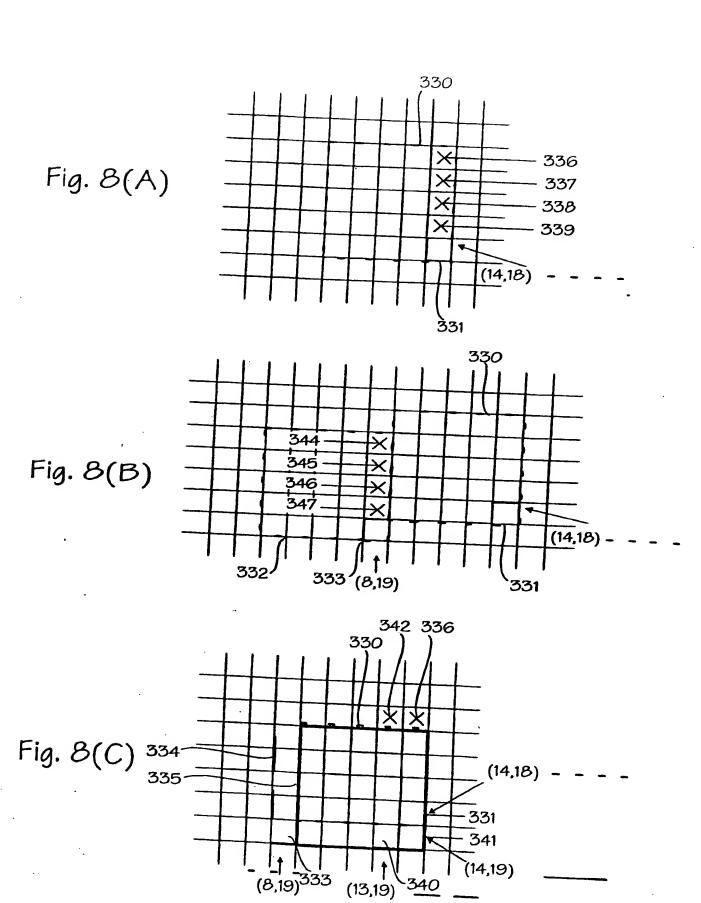


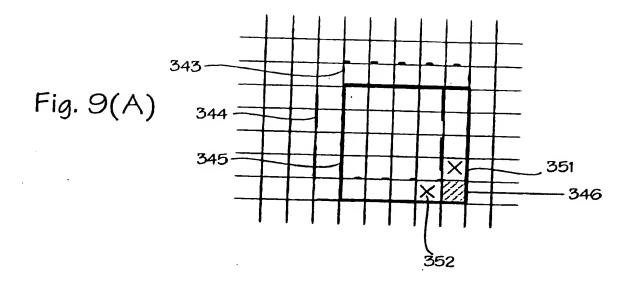


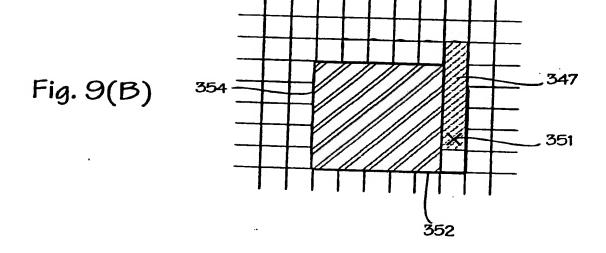
DATA FOR CENSUS VECTOR CENTERED AT (x,y)

| | | | | | | | X | | | | | |
|-----|-----|----|----|----|----|----|--------|----|----|----|----|---|
| | | | -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | |
| | | -4 | | | | | | 1 | | 2 | | |
| | Υ | -3 | 3 | | 4 | | 5 | | 6 | | | |
| | | -2 | | 7 | | 8 | | 9 | | 10 | | |
| | | -1 | 11 | | 12 | | 13 | | 14 | | | |
| | | 0 | | 15 | | 16 | (x, y) | | 17 | | 18 | 1 |
| | | 1 | | 19 | · | 20 | | 21 | | 22 | · | |
| | | 2 | | | 23 | | 24 | | 25 | | 26 | |
| | | 3 | | 27 | | 28 | · | 29 | | 30 | | |
| | | 4 | | | 31 | | 32 | | | | · | |
| 324 | | | | | | | | | | | | |
| | 323 | | | | | | | | | | | |
| | | | | | | | | | | | | |

Fig. 7







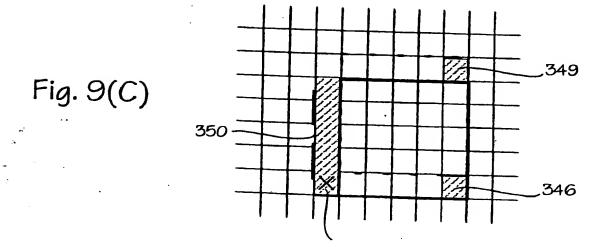
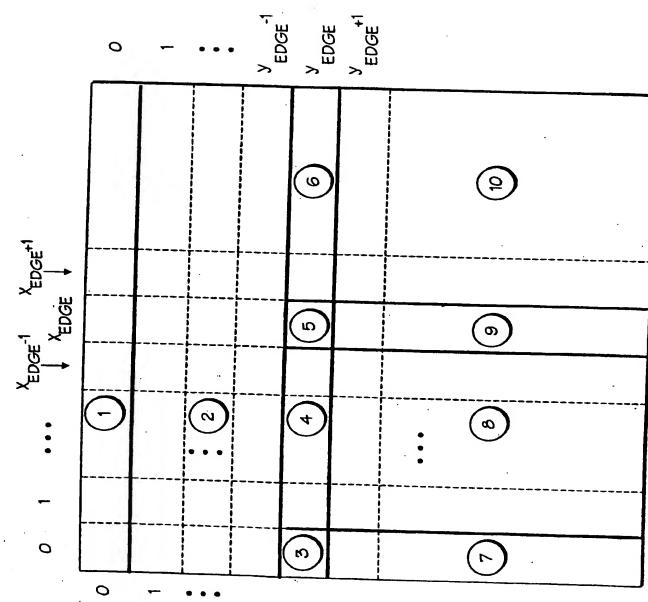


Fig. 10A



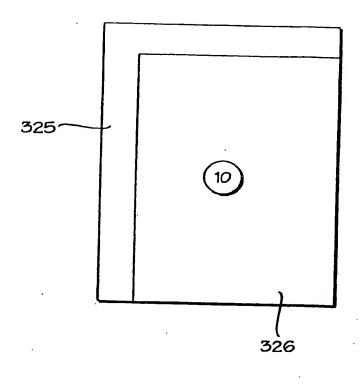


Fig. 10(B)

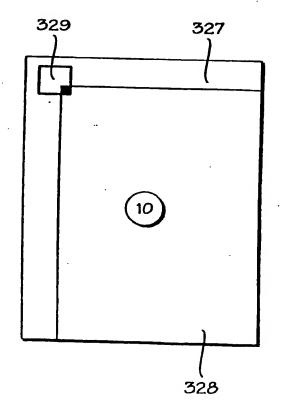
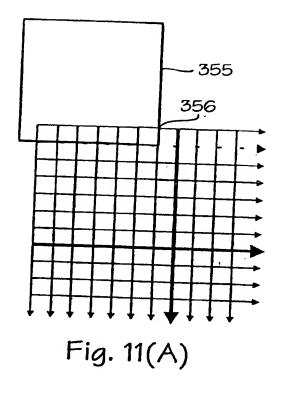
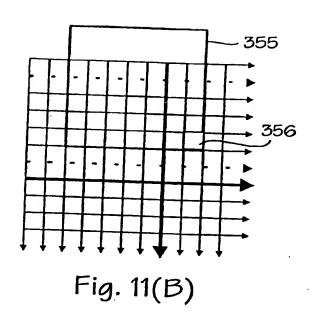
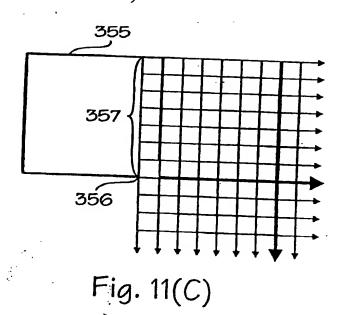
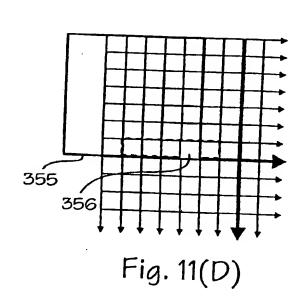


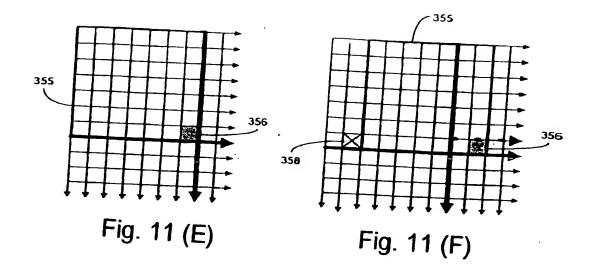
Fig. 10(C)

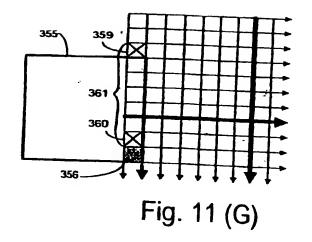


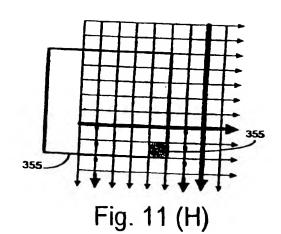


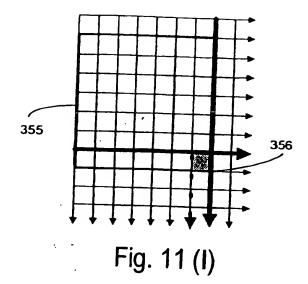












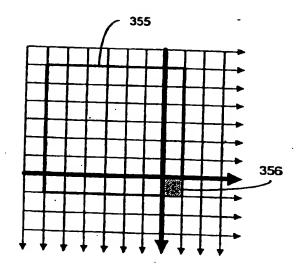


Fig. 11 (J)

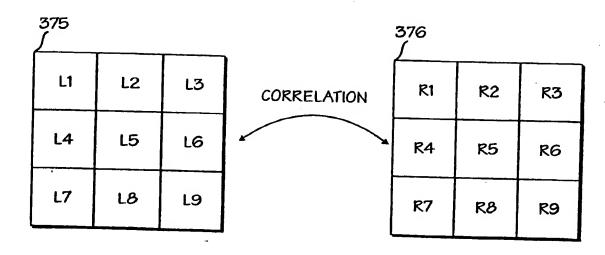
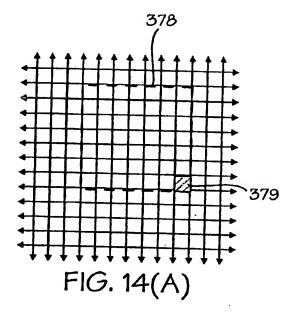


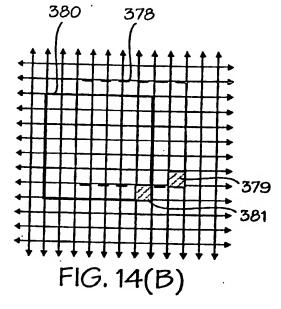
Fig. 12

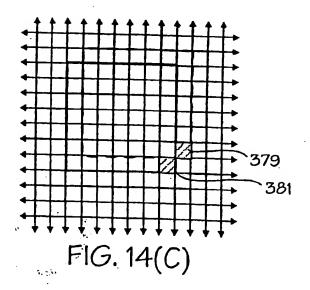
 \bar{c}

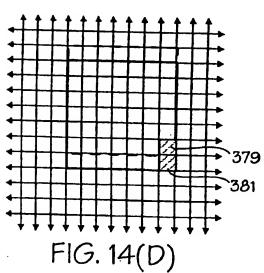
16020862 032102

<u>B</u>

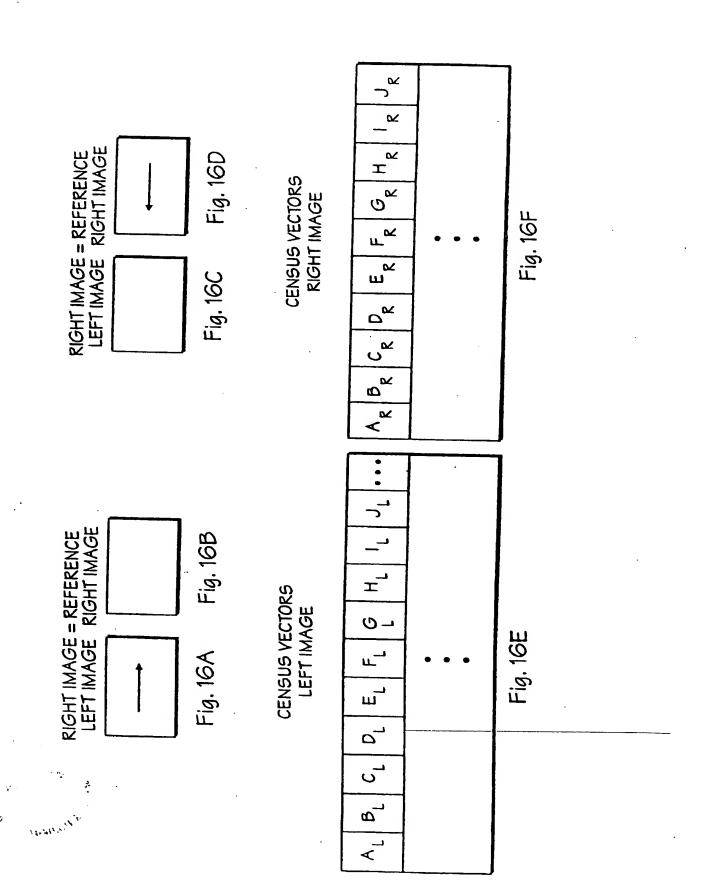


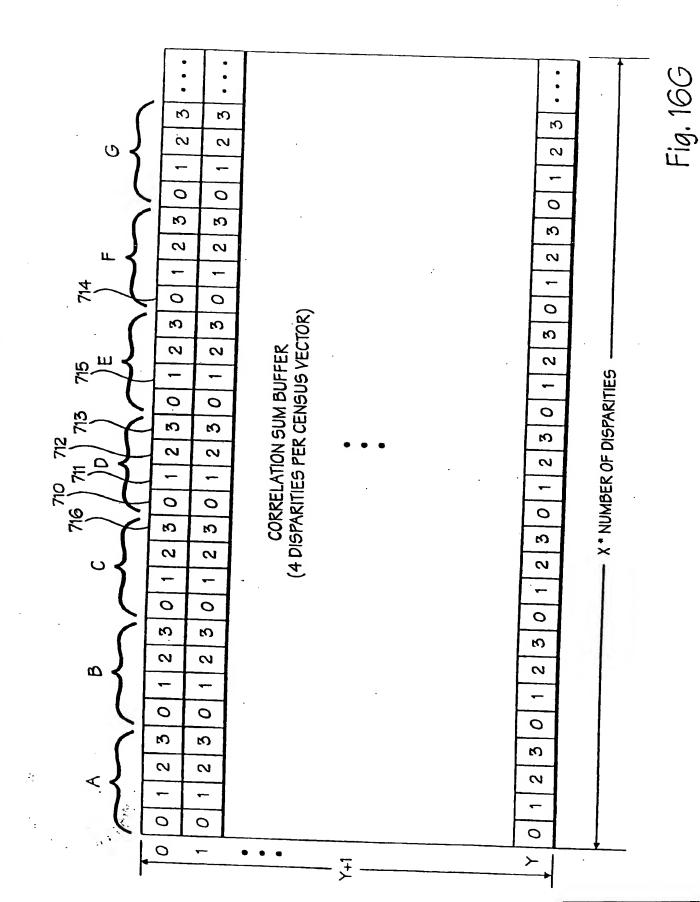


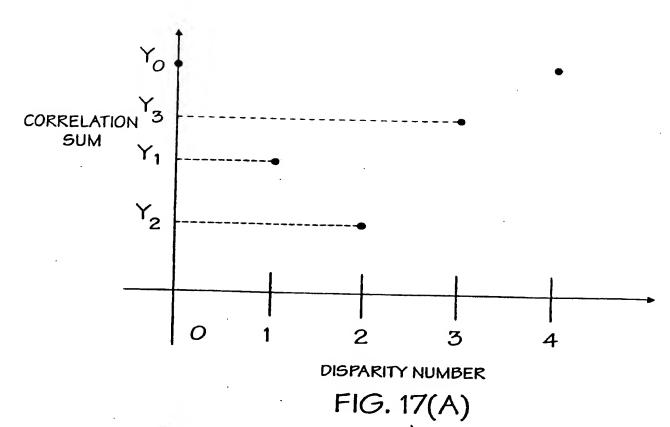




| - | γ γ X+14 X+15 | FIG. 15(A) | Y. Y X+14 X+15 | FIG. 15(B) | Y | FIG. 15(C) | Y Y X+14 X+15 | FIG. 15(D) | |
|----------------------------|--------------------------------------|------------|--|------------|---|------------|------------------------------|------------|-------|
| COLUMN SUM ARRAY [X][Y] | Υ Υ Υ Υ Υ X+9 X+10 X+11 X+12 X+13 | FIG | 9 X+10 X+11 X+12 X+13 | FIG | Y Y Y Y Y Y Y X+10 X+10 X+11 X+12 | FIG | Y Y Y Y X+10 X+11 X+12 X+13 | FIG | |
| | Υ Υ Υ X+6 X+7 X+8 | | Υ Υ Υ Υ X+6 X+7 X+8 X+9 | | Υ Υ Υ Υ Υ X+8 X+6 X+7 X+8 | | γ γ γ γ × X+8 X+6 X+7 X+8 | > | WIDTH |
| UPDATE SEQUENCE | Y Y Y Y Y X+2 X+2 X+5 X+5 | 384 | Υ Υ Υ Υ X+2 X+3 X+4 X+5 | 384 | Υ Υ Υ Υ X+2 X+3 X+4 X+5 | 384 | Y+1 Y Y Y X+2 X+3 X+4 X+5 | | |
| UPDA | ×+1 | 986 | × * | 787 3 | * * * * | t=2 | * † † | t=3 | |







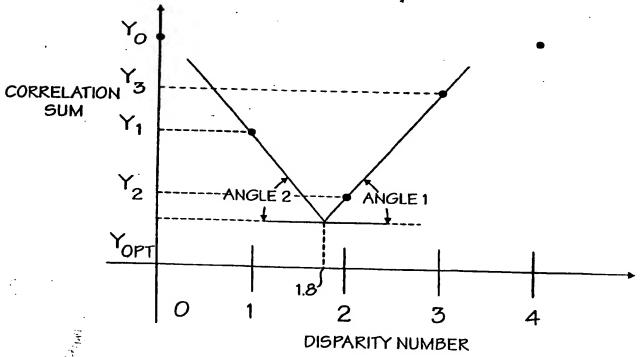
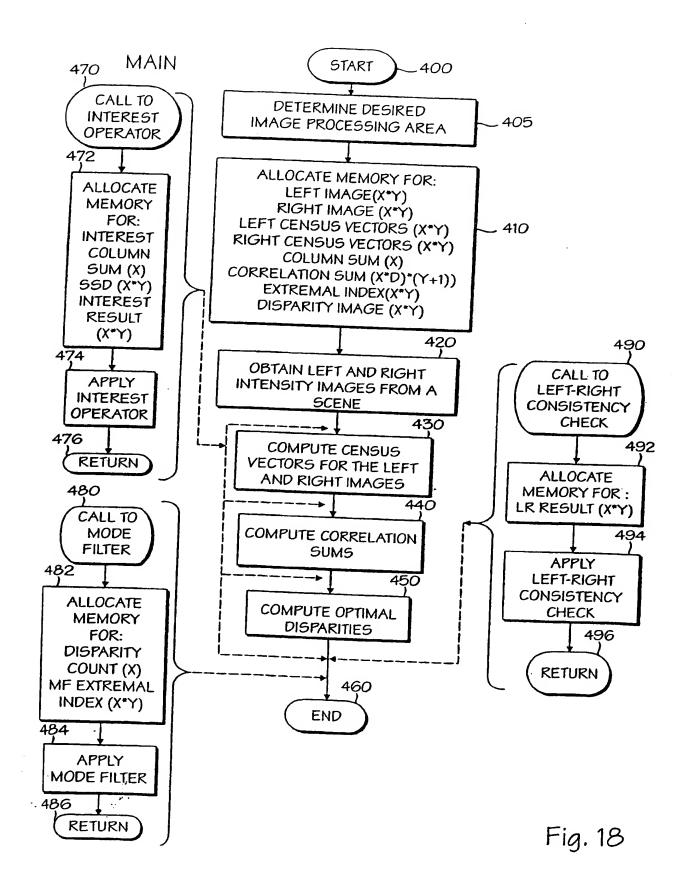
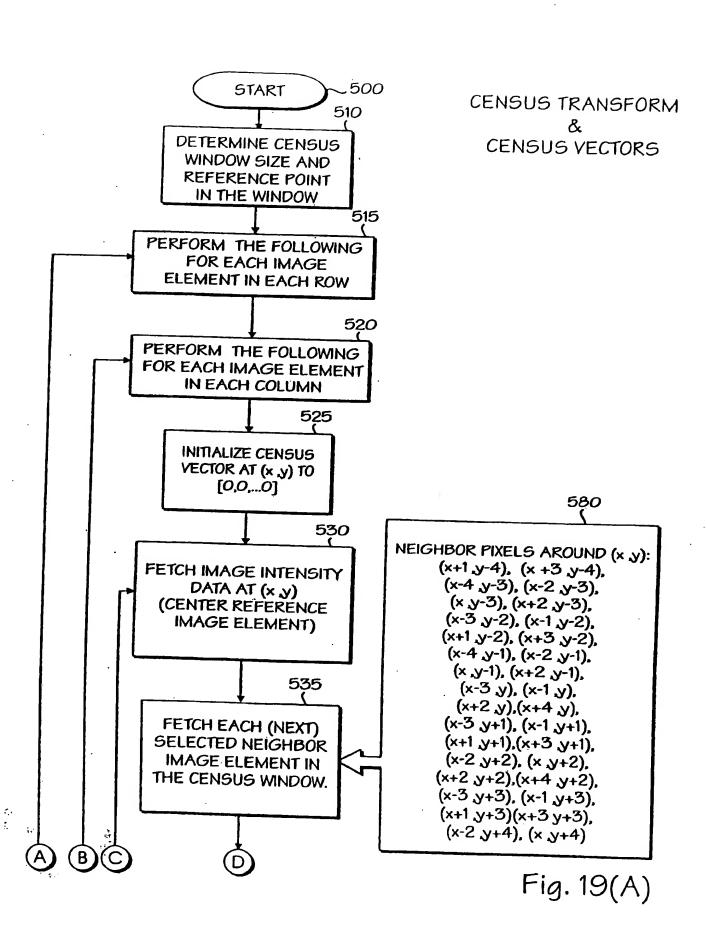
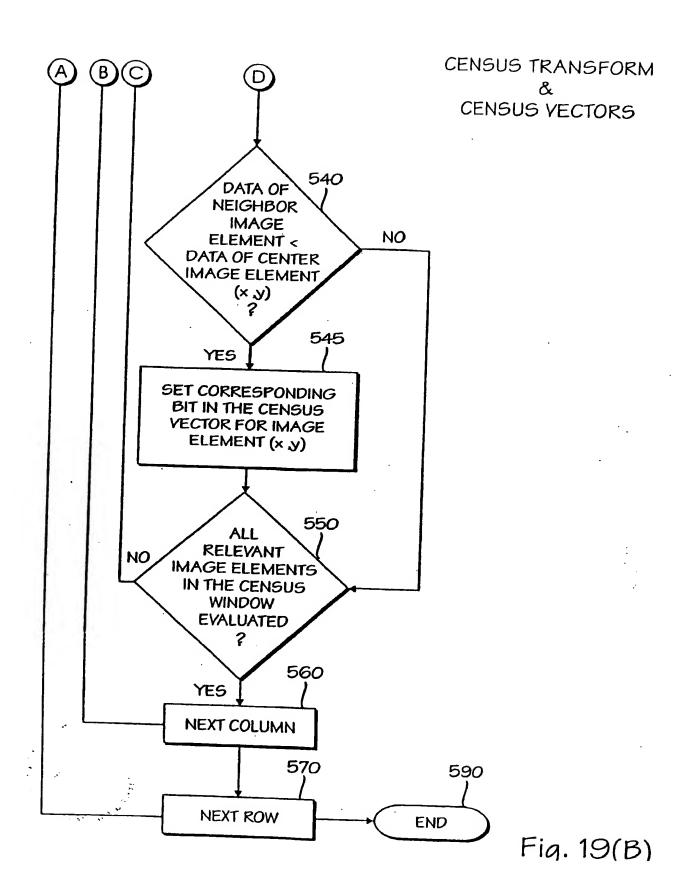


FIG. 17(B)







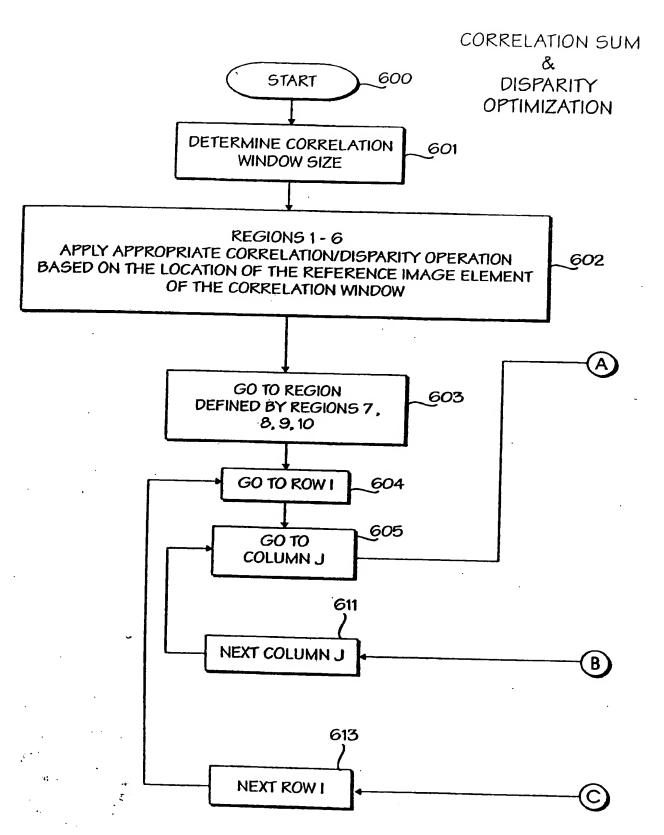
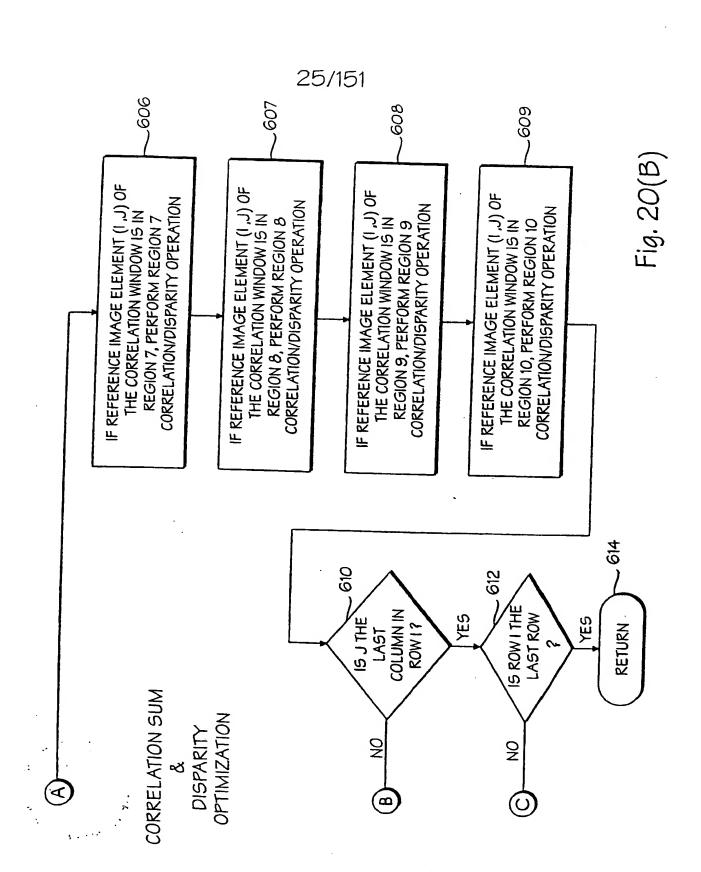
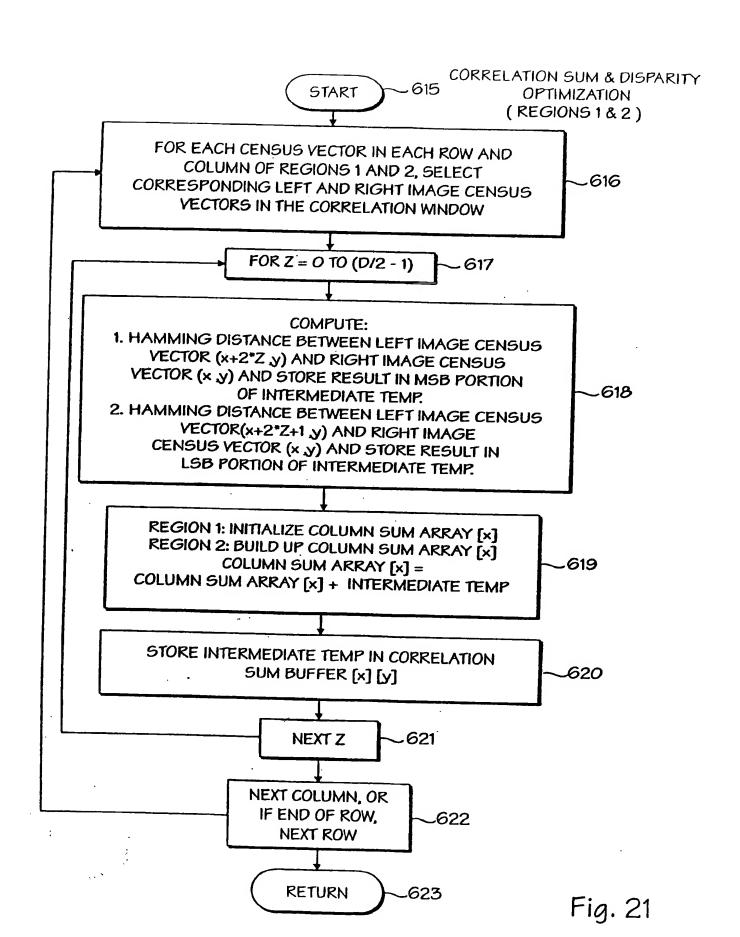
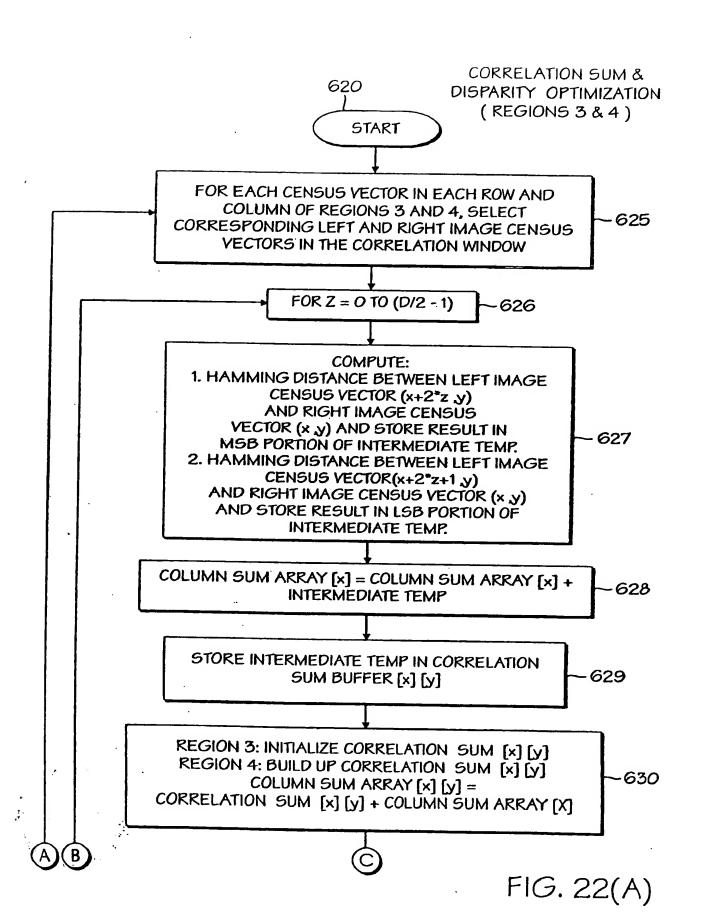


Fig. 20(A)







CORRELATION SUM & DISPARITY OPTIMIZATION (REGIONS 3 & 4)

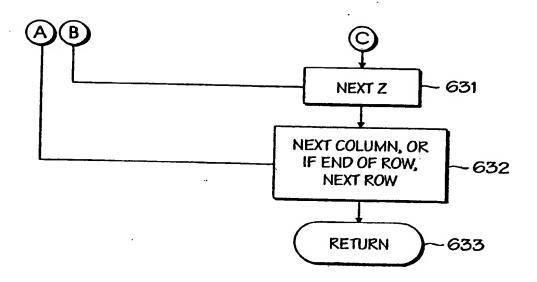
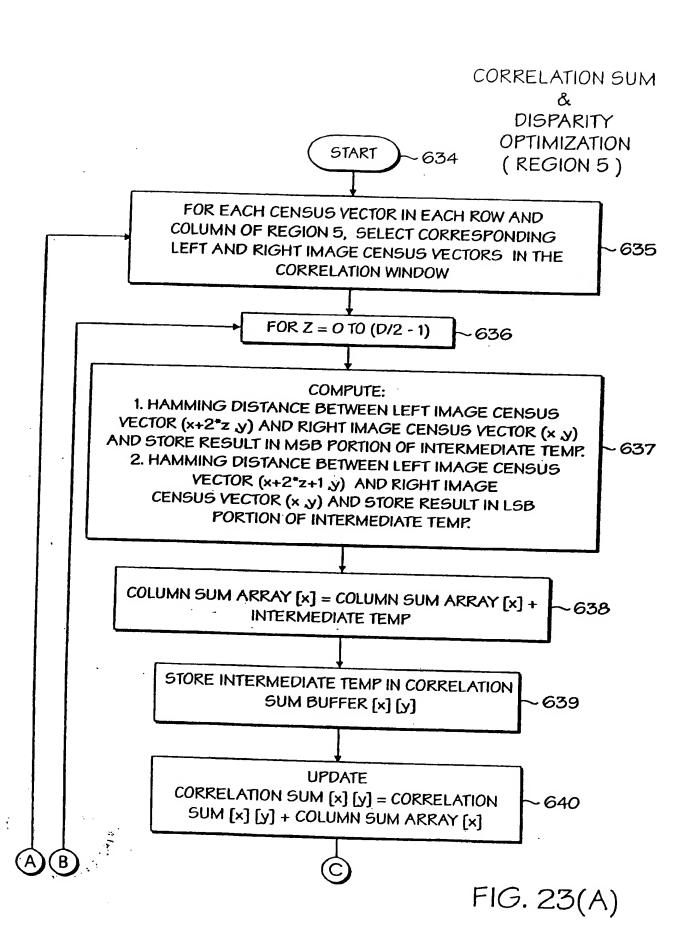
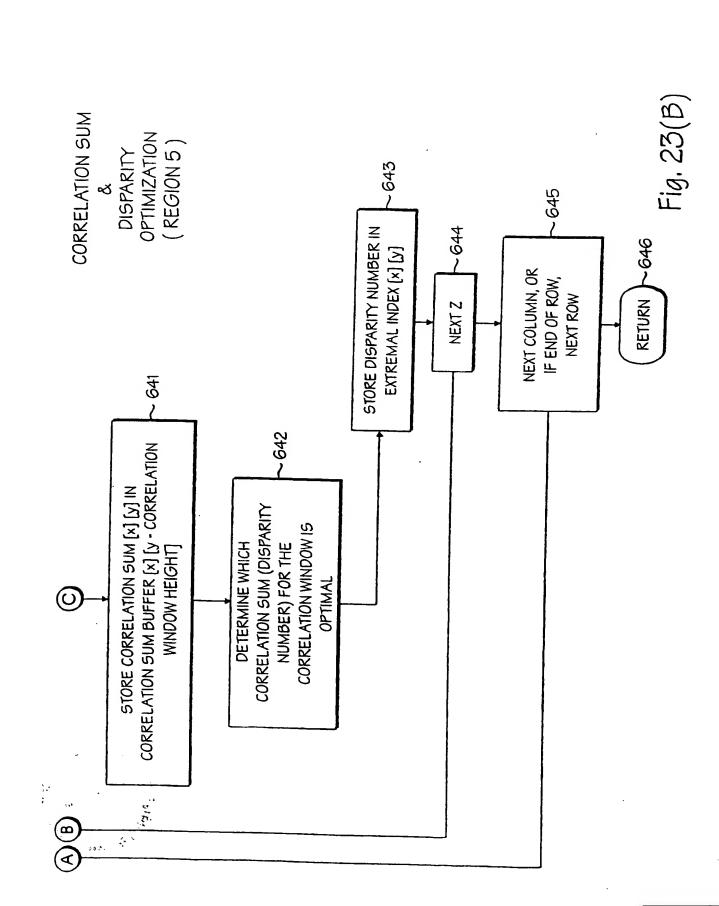
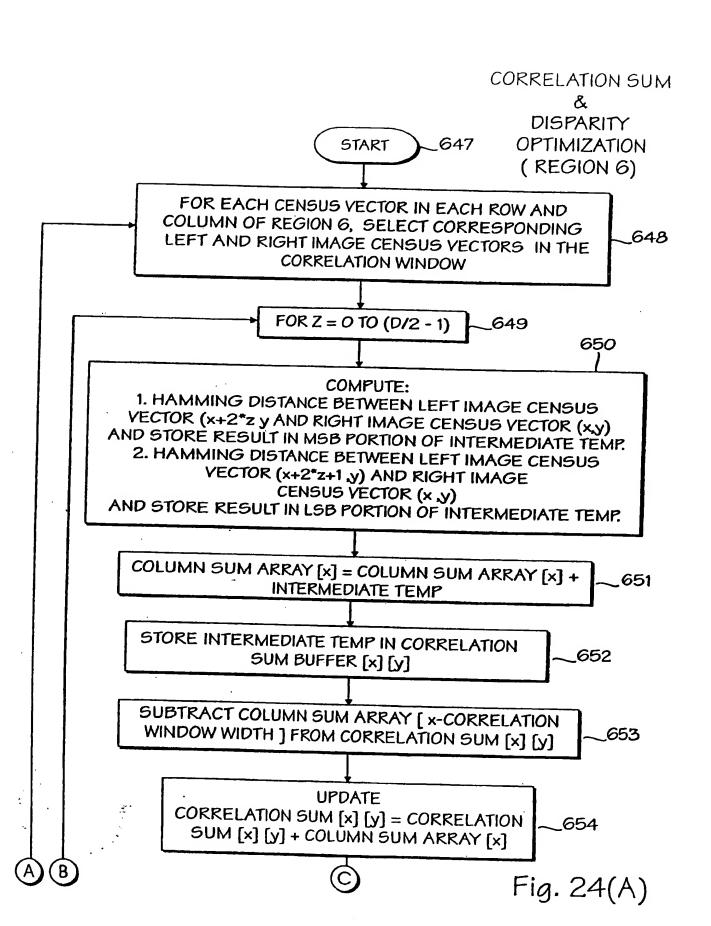
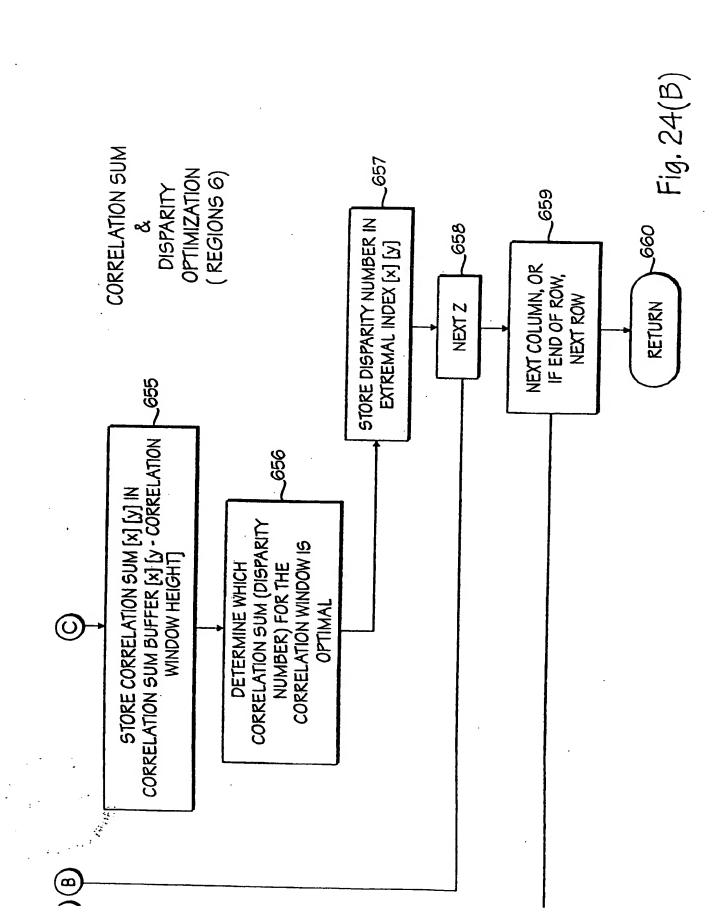


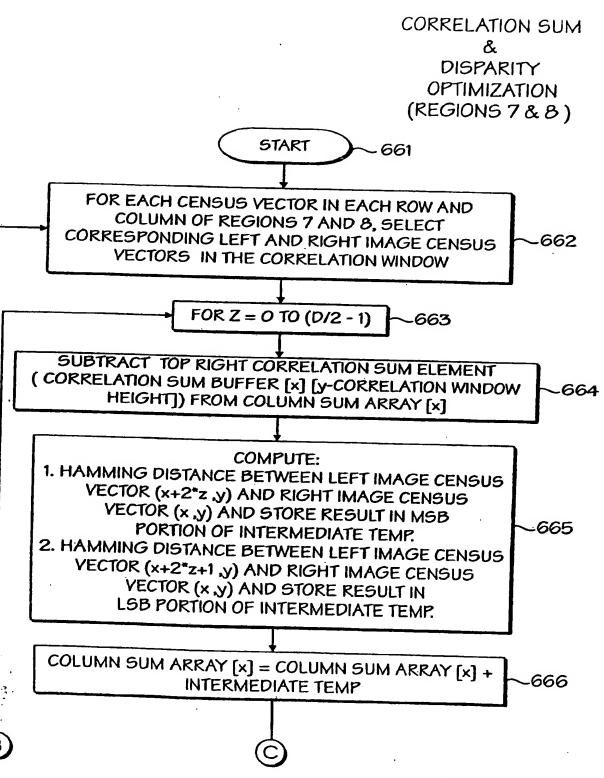
FIG. 22(B)





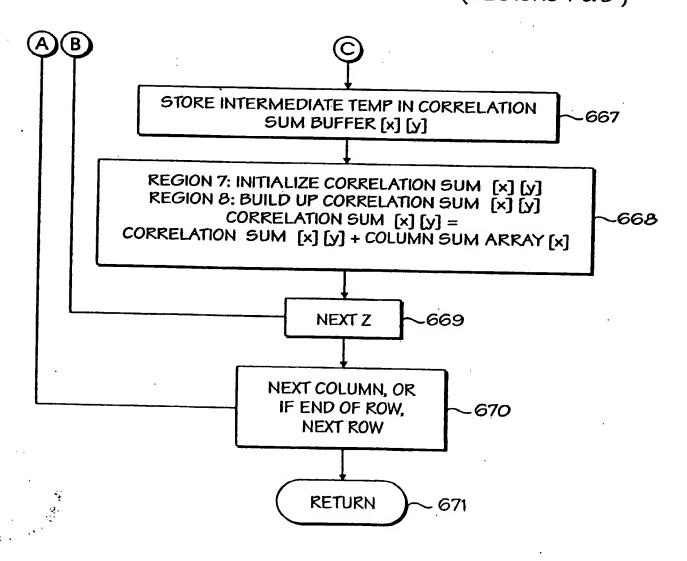




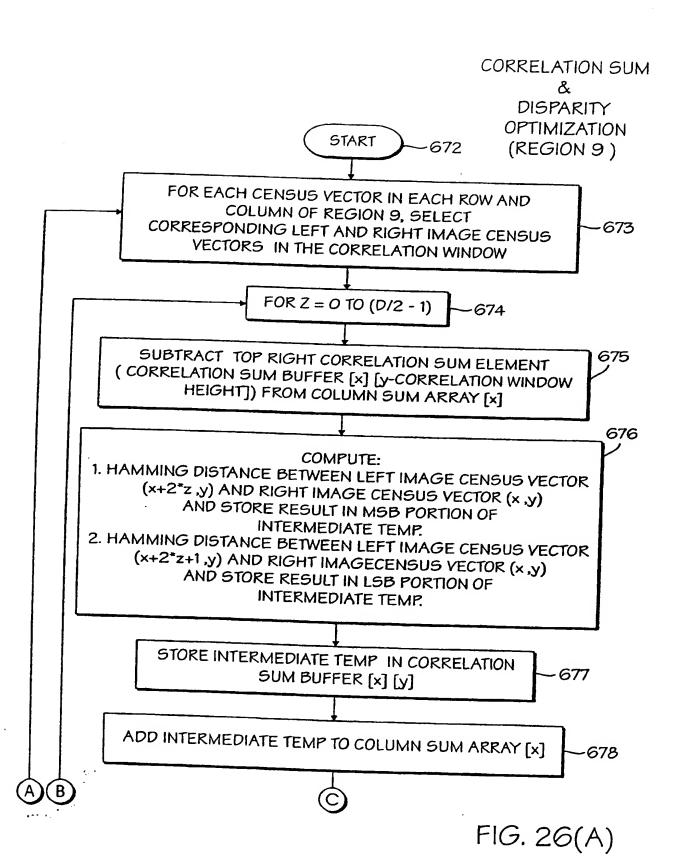


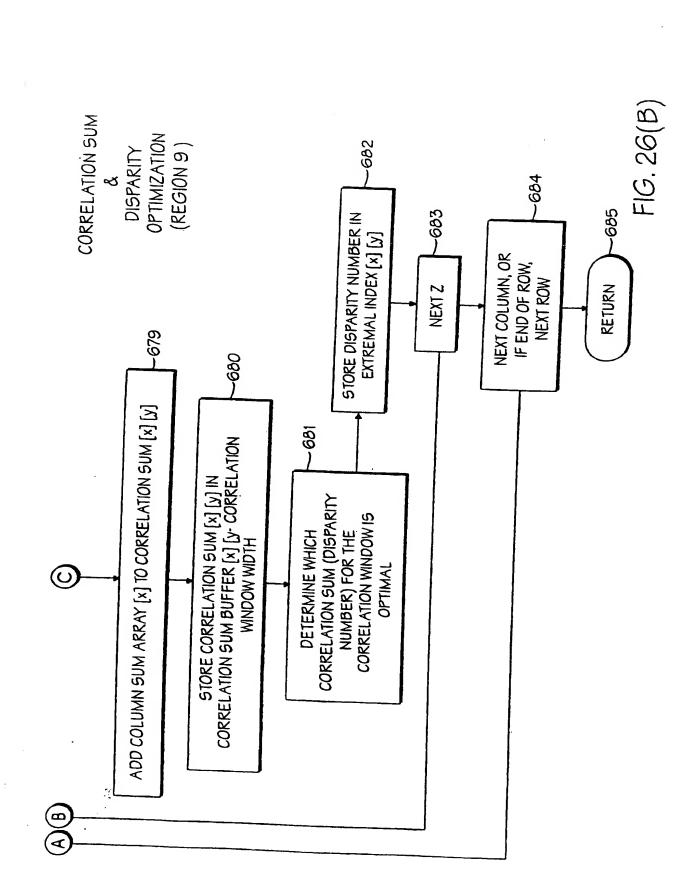
Fia. 25(A)

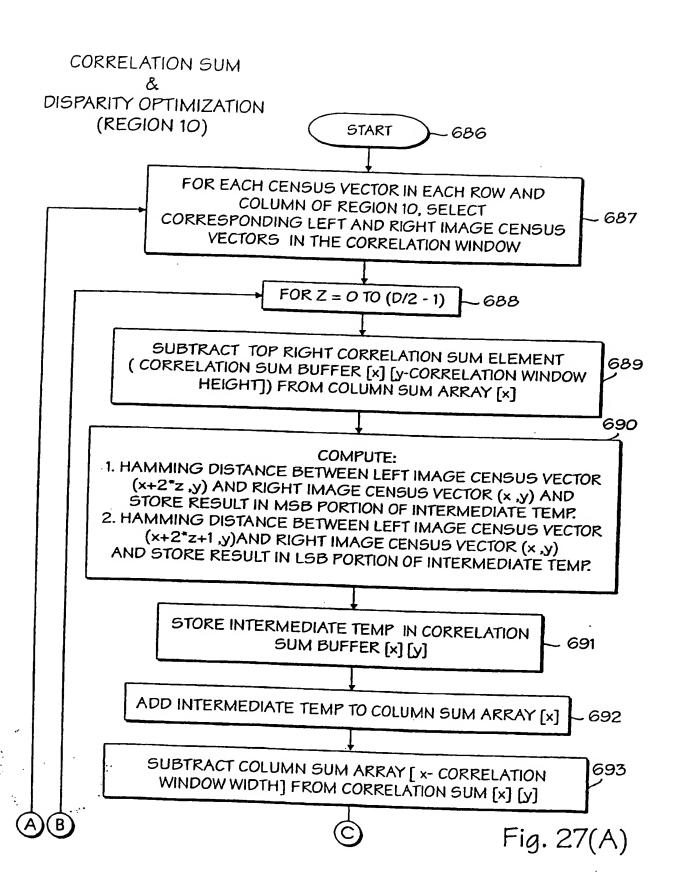
CORRELATION SUM &
DISPARITY
OPTIMIZATION
(REGIONS 7 & 8)

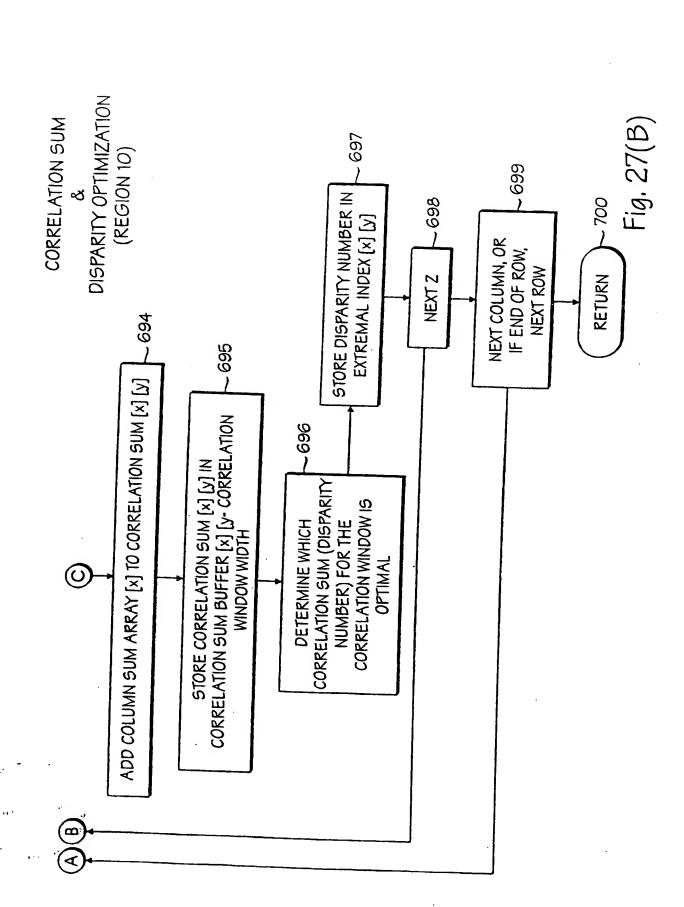


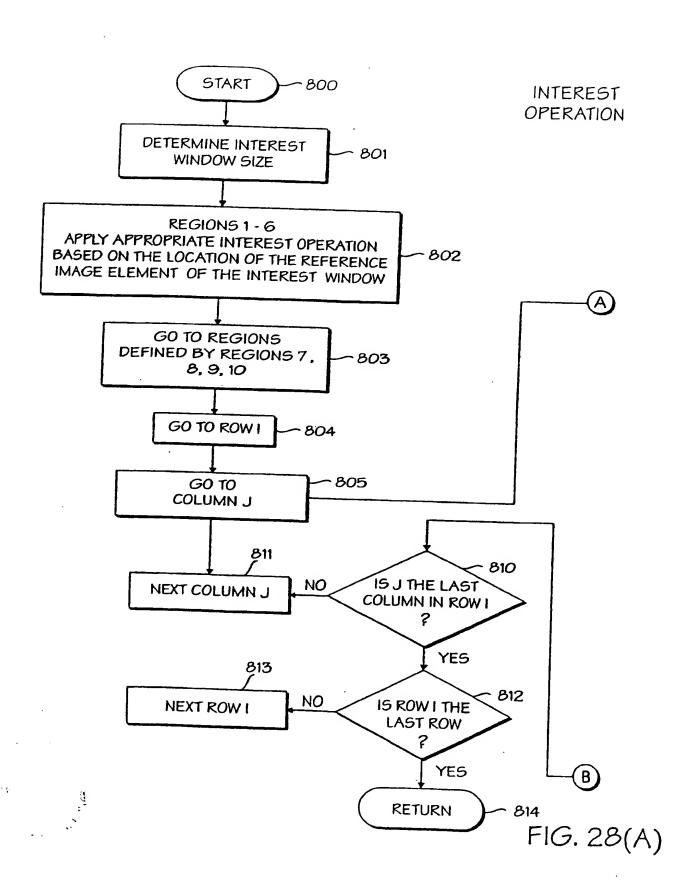
Fin 25/R1



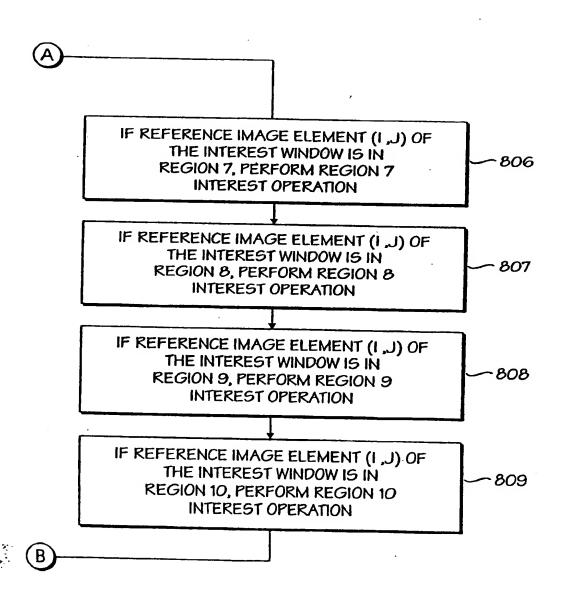


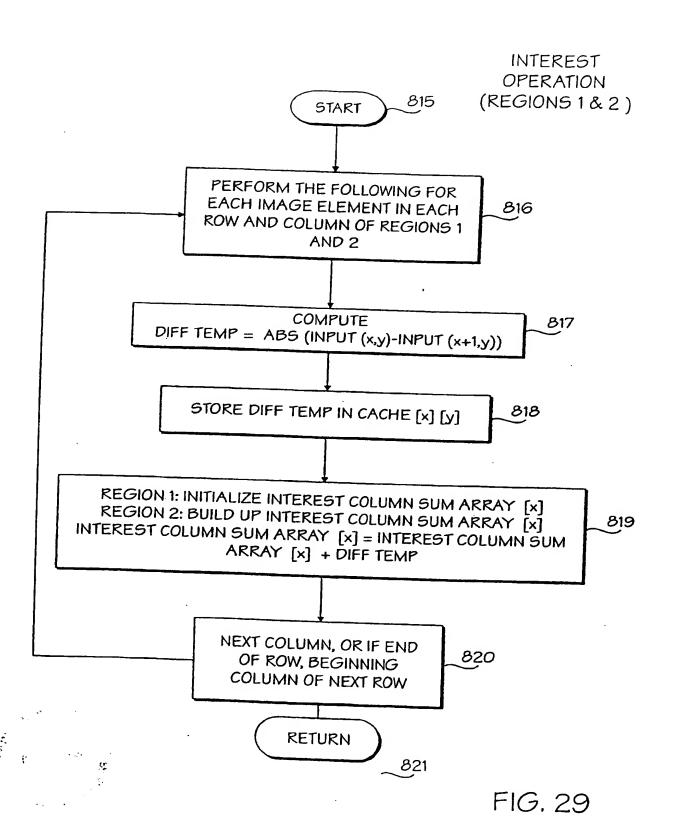


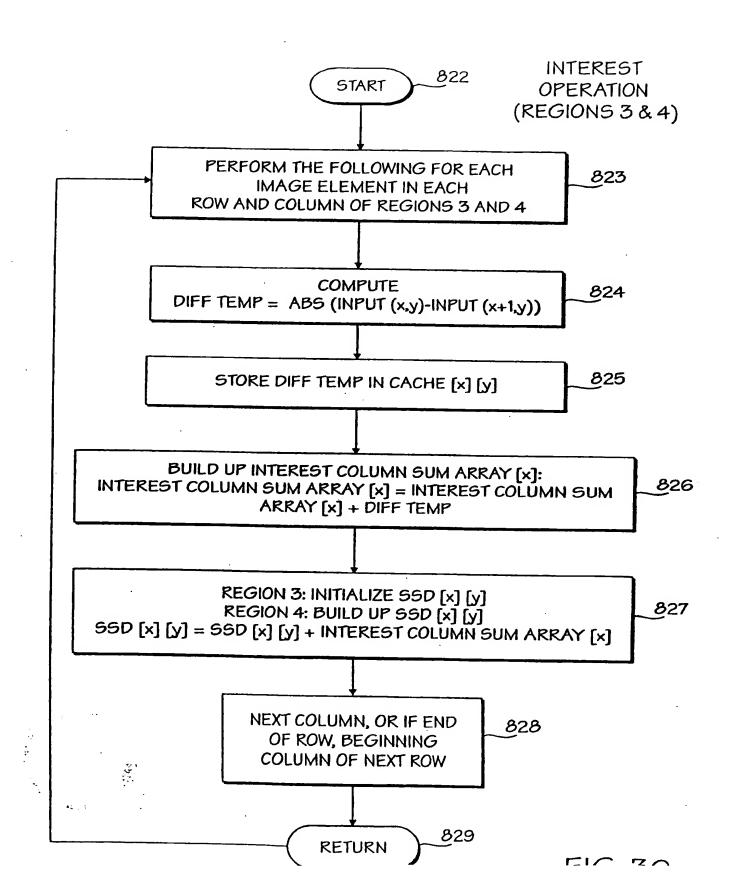


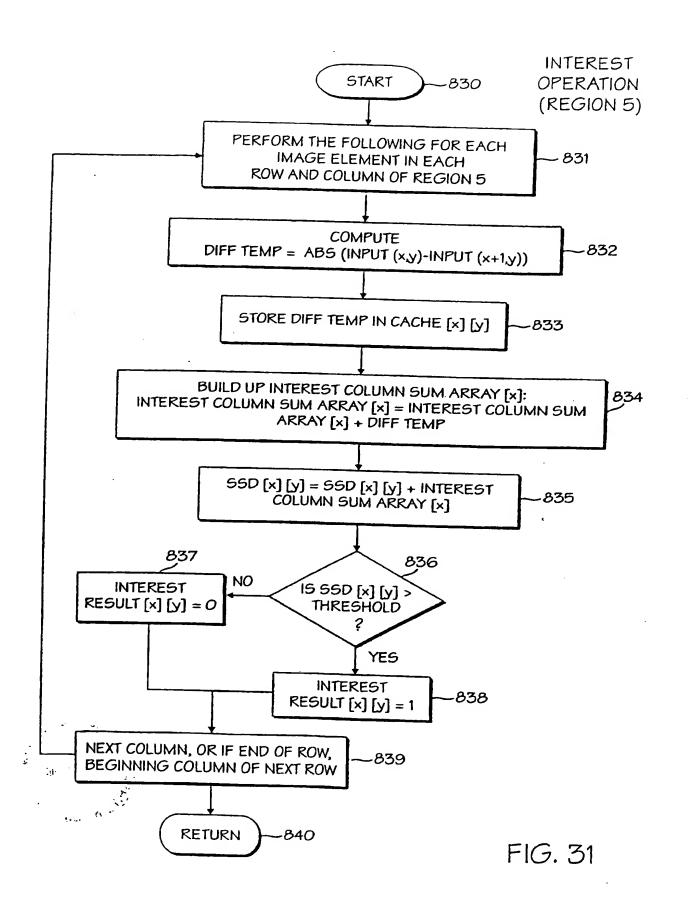


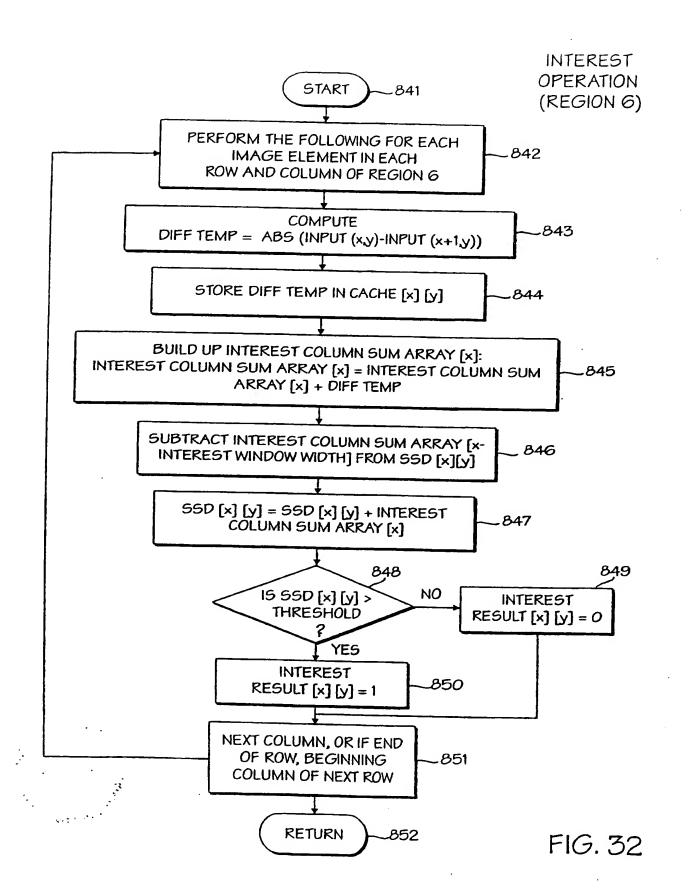
INTEREST OPERATION

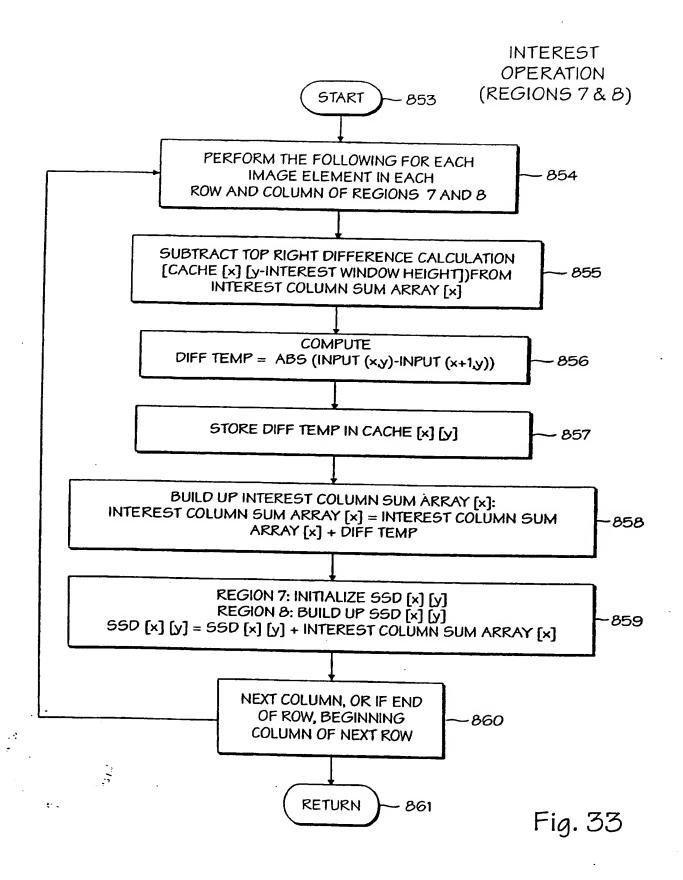


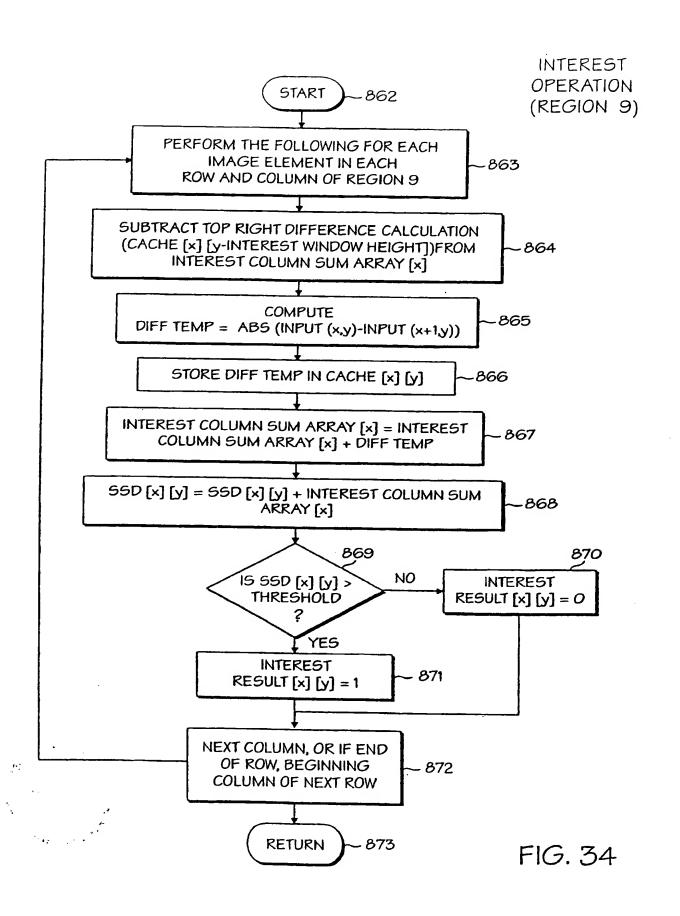












INTEREST OPERATION (REGION 10)

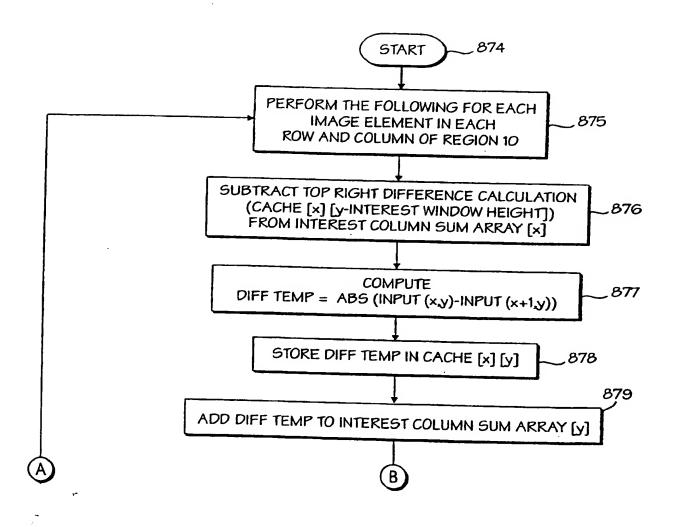


Fig. 35(A)

INTEREST OPERATION (REGION 10)

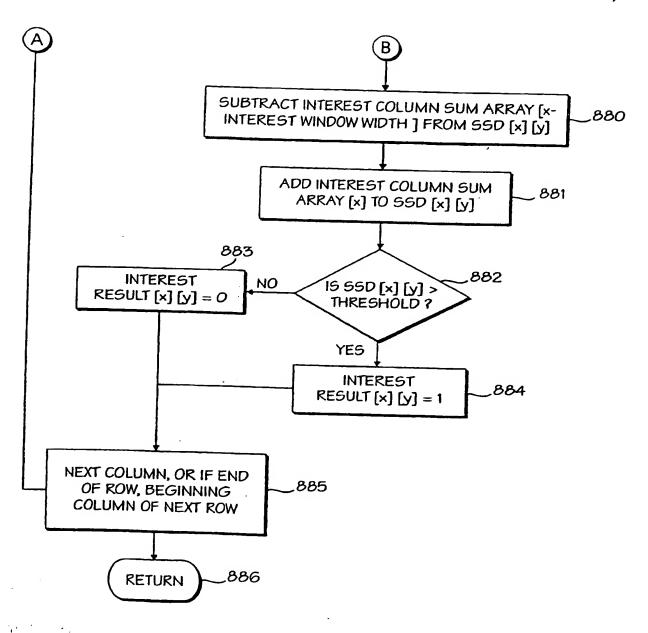
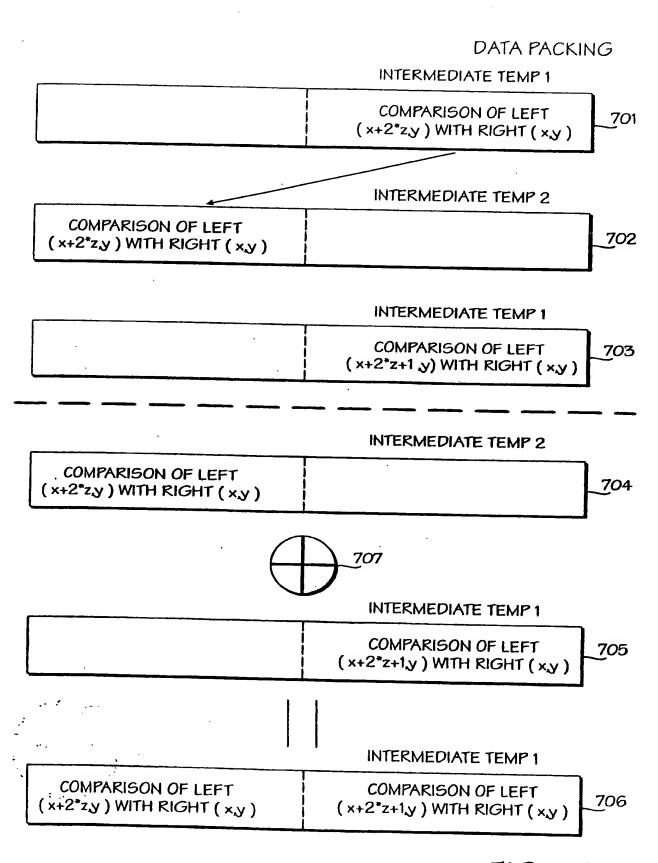


Fig. 35(B)



LEFT - RIGHT CONSISTENCY CHECK

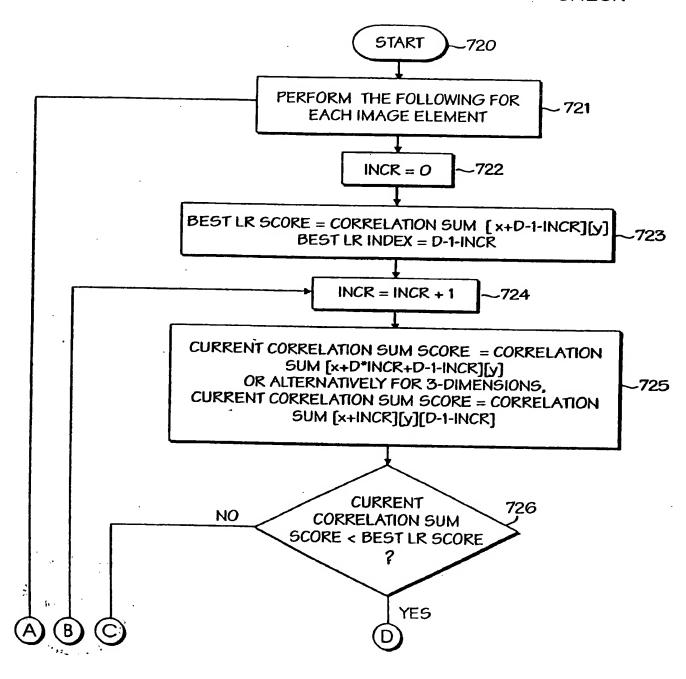


FIG. 37(A)

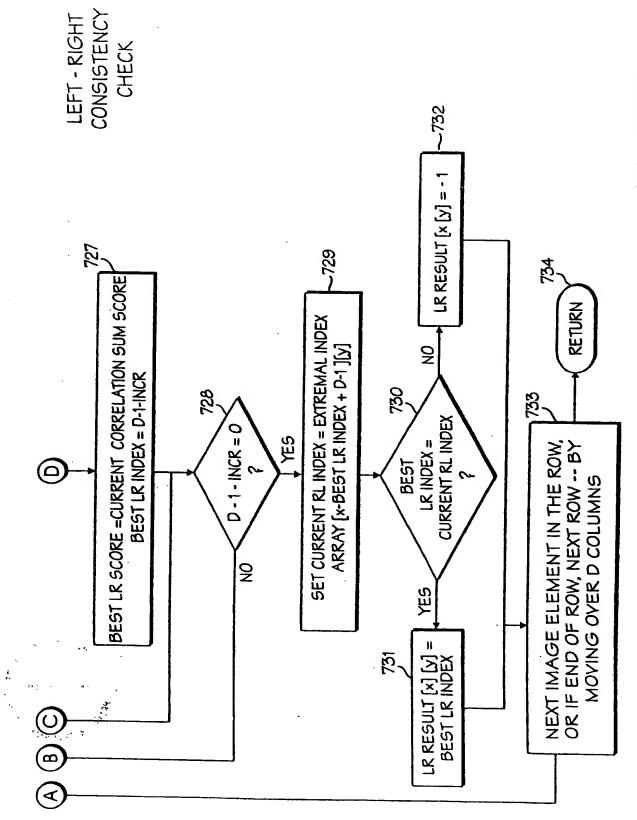
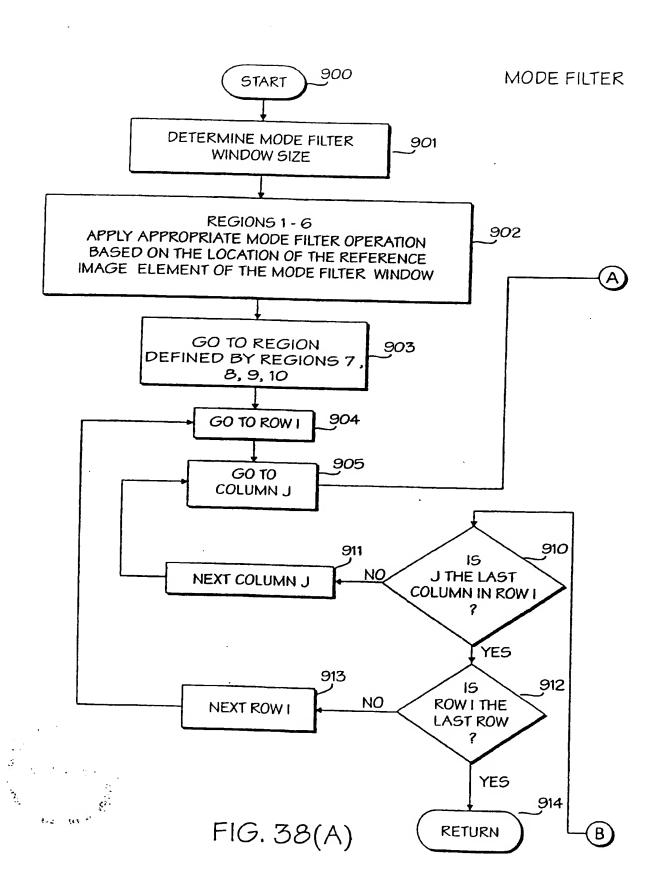


FIG. 37(B)



MODE FILTER

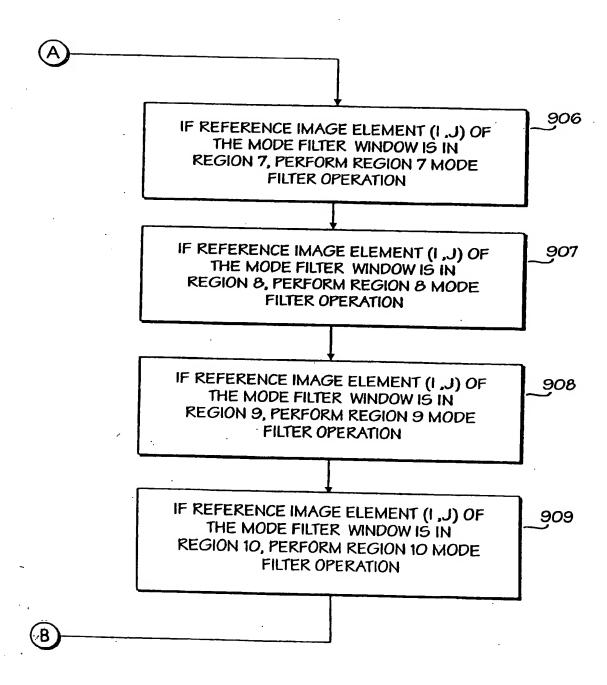
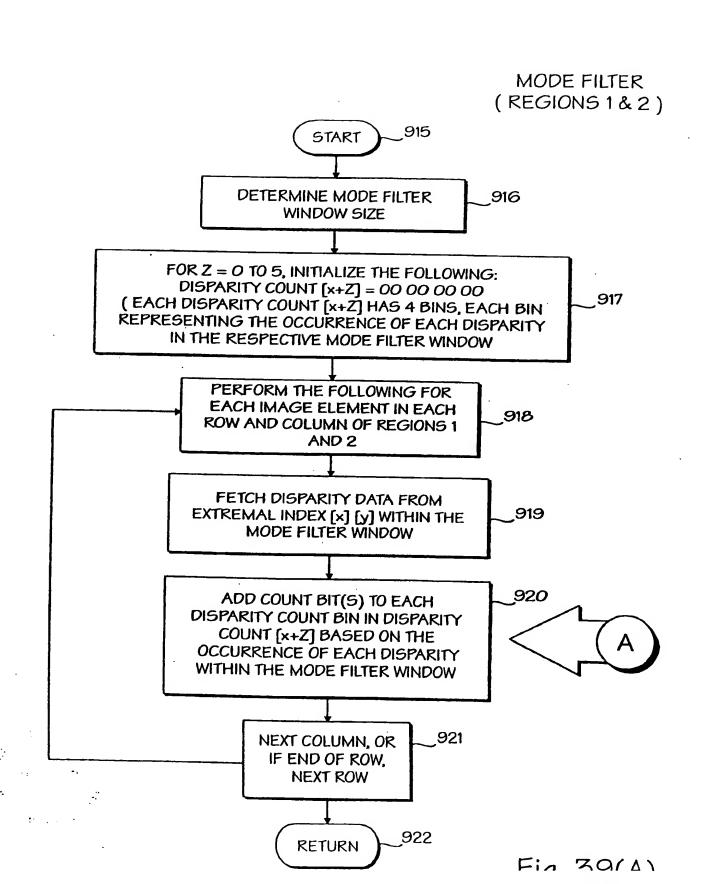


FIG. 38(B)

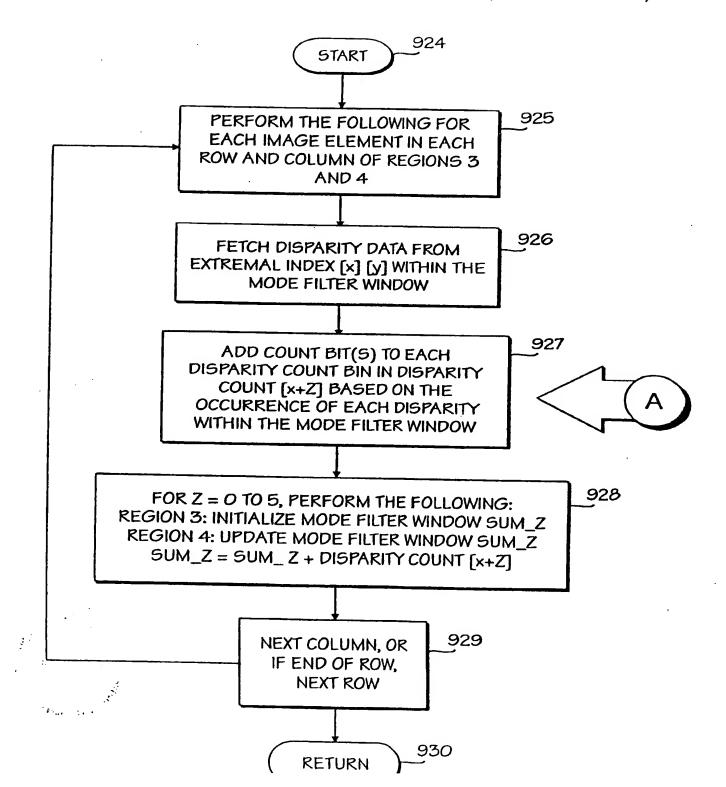


MODE FILTER (REGIONS 1 & 2)

| | | | _ |
|-----|------|--------------------------|------|
| | DISP | DISPARITY COUNT [x+Z] | _923 |
| | 0 | [x] <i>[00] 00 00 00</i> | İ |
| | 1 | [x] 00 00 00 00 | |
| | 2 | [x] 00 00 00 00 | ļ |
| | 3 | (×) 00 00 00 00 | |
| | 4 | [x+1] 00 00 00 00 | |
| | 5 | [x+1] 00 00 00 00 | |
| | 6 | [x+1] 00 00 00 00 | |
| | 7 | [x+1] 00 00 00 00 | 4 |
| | 8 | [x+2] 00 00 00 00 | |
| | 9 | [x+2] 00 00 00 00 | |
| (A) | 10 | [x+2] 00 00 00 00 | 1 |
| | 11. | [x+2] 00 00 00 00 | |
| | 12 | [x+3] 00 00 00 00 | |
| | 13 | [x+3] 00 00 00 00 | |
| | 14 | [x+3] 00 00 00 00 | |
| | 15 | [x+3] 00 00 00 00 | 1 |
| | 16 | [x+4] 00 00 00 00 | |
| | 17 | [x+4] 00 00 00 00 | |
| | 18 | [x+4] 00 00 00 00 | 1 |
| ; | 19 | [x+4] 00 00 00 00 | I |
| | 20 | [x+5] 00 00 00 00 | j |
| | 21 | [x+5] 00 00 00 00 | |
| | 22 | [x+5] 00 00 00 00 | |
| · . | 23 | [x+5] 00 00 00 00 | |
| | | | |

Fin 30/R)

MODE FILTER (REGIONS 3 & 4)



MODE FILTER (REGIONS 3 & 4)

| | | | _ |
|------------|------|----------------------------|-----|
| | | | 931 |
| | DISP | DISPARITY COUNT [x+Z] | 331 |
| | 0 | [×] 00 00 00 00 | |
| | 1 | [x] 00 00 00 00 | |
| | 2 | [x] 00 00 00 00 | |
| | 3 | [x] 00 00 00 00 | |
| | 4 | [x+1] 00 00 00 00 | |
| | 5 | [x+1] 00 00 00 00 | 1 |
| | 6 | [x+1] 00 00 00 00 | 1 |
| | 7 | [x+1] 00 00 00 00 | |
| | 8 | [x+2] 00 00 00 00 | i |
| | 9 | [x+2] 00 00 00 00 | |
| (A) | 10 | [x+2] 00 00 00 00 | 1 |
| |] 11 | [x+2] 00 00 00 00 | |
| | 12 | [x+3] [00] 00 00 00 | |
| | 13 | [x+3] 00 00 00 00 | |
| | 14 | [x+3] 00 00 00 00 | |
| | 15 | [x+3] 00 00 00 00 | 1 |
| | 16 | [x+4] <i>[OO] OO OO OO</i> | 1 |
| | 17 | [x+4] 00 00 00 00 | |
| | 18 | [x+4] 00 00 00 00 | ł |
| | 19 | [x+4] 00 00 00 00 | |
| | 20 | [x+5] [00] 00 00 00 | |
| | 21 | [x+5] 00 00 00 00 | |
| ' . | 22 | [x+5] 00 00 00 00 | |
| | 23 | [x+5] 00 00 00 00 | } |
| ٥. | | | |
| . 3 (43.67 | | | |
| | | | J |

FIG 40(B)

MODE FILTER (REGION 5)

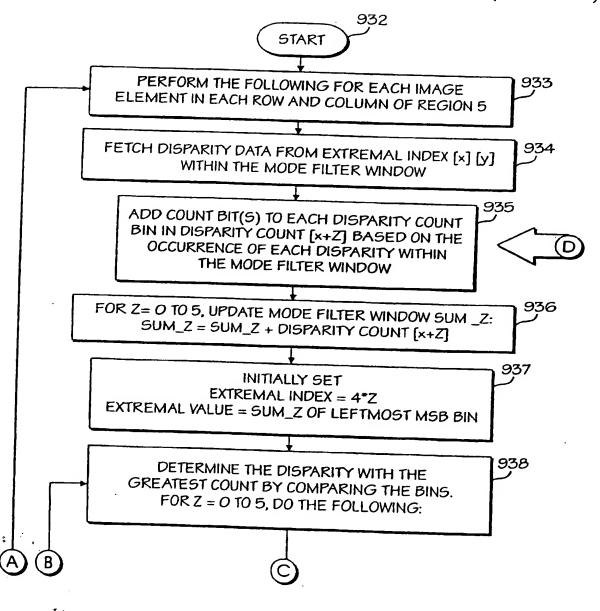
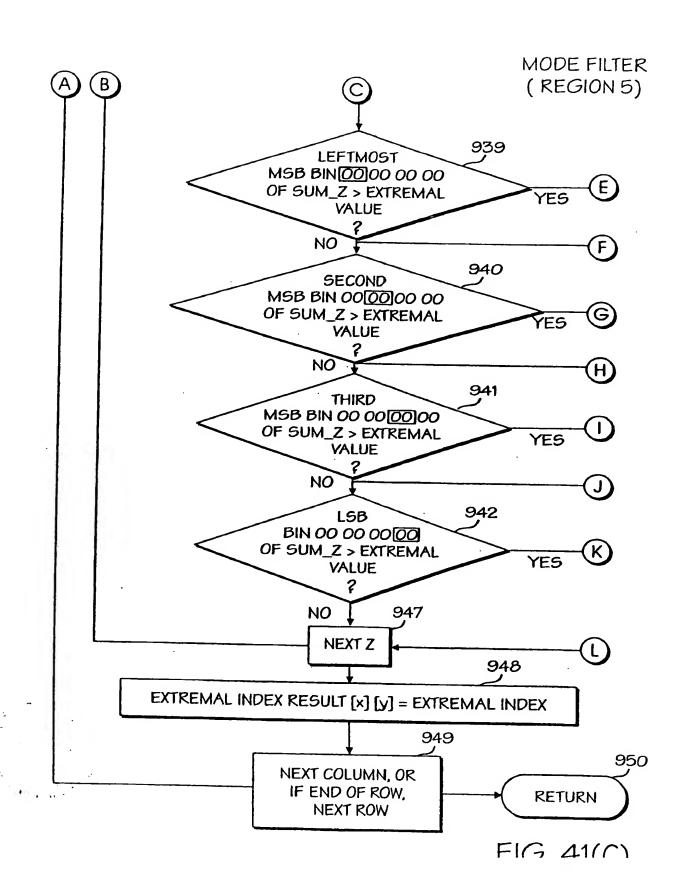


FIG. 41(A)

MODE FILTER (REGION 5)

| | | | ~ |
|----|------|----------------------------|-----|
| | DISP | DISPARITY COUNT [x+Z] | |
| | 0 | [x] 00 00 00 00 | 951 |
| | 1 | [x] 00 00 00 00 | |
| | 2 | [x] 00 00 00 00 | 1 . |
| • | 3 | [x] 00 00 00 <u>00</u> | |
| | 4 | [x+1] 00 00 00 00 | |
| | 5 | [x+1] 00 00 00 00 | |
| | 6 | [x+1] 00 00 00 00 | į |
| | 7 | [x+1] 00 00 00 00 | |
| | B | [x+2] <i>[00] 00 00 00</i> | |
| | ງ 9 | [x+2] 00 00 00 00 | |
| | 10 | [x+2] 00 00 00 00 |] |
| | 11 | [x+2] 00 00 00 00 | ļ |
| | 12 | [x+3] 00 00 00 00 | |
| | 13 | [x+3] 00 00 00 00 | |
| | 14 | [x+3] 00 00 00 00 | İ |
| | 15 | [x+3] 00 00 00 00 | |
| | 16 | (x+4) 00 00 00 00 | |
| I | 17 | [x+4] 00 00 00 00 | |
| | 18 ´ | [x+4] 00 00 00 00 | |
| | 19 | [x+4] 00 00 00 00 | |
| | 20 | [x+5] 00 00 00 00 | |
| | 21 | [x+5] 00 00 00 00 | l |
| | 22 | [x+5] 00 00 00 00 | |
| • | 23 | [x+5] 00 00 00 00 | |
| 12 | | | |
| | | | . · |

FIG. 41(B)



MODE FILTER (REGION 5)

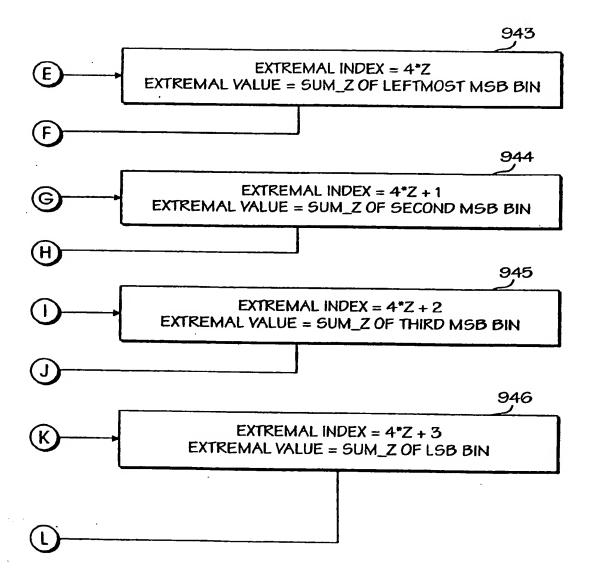


FIG. 41(D)

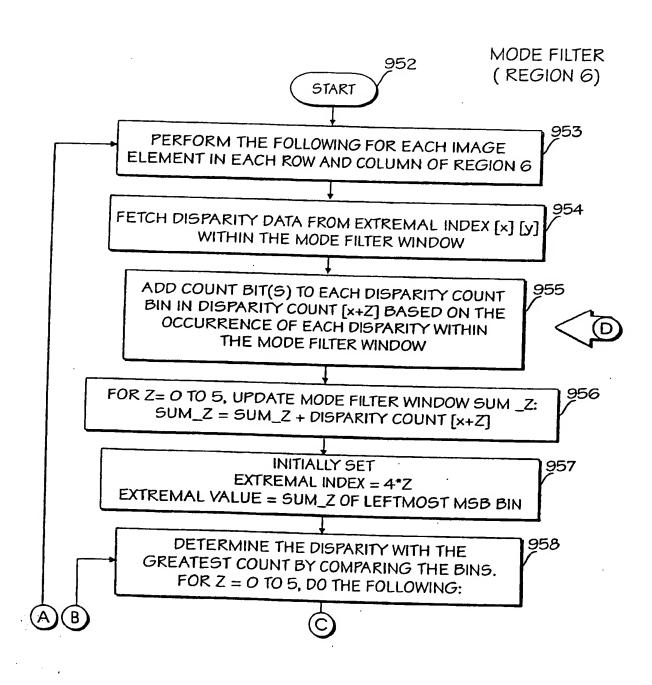
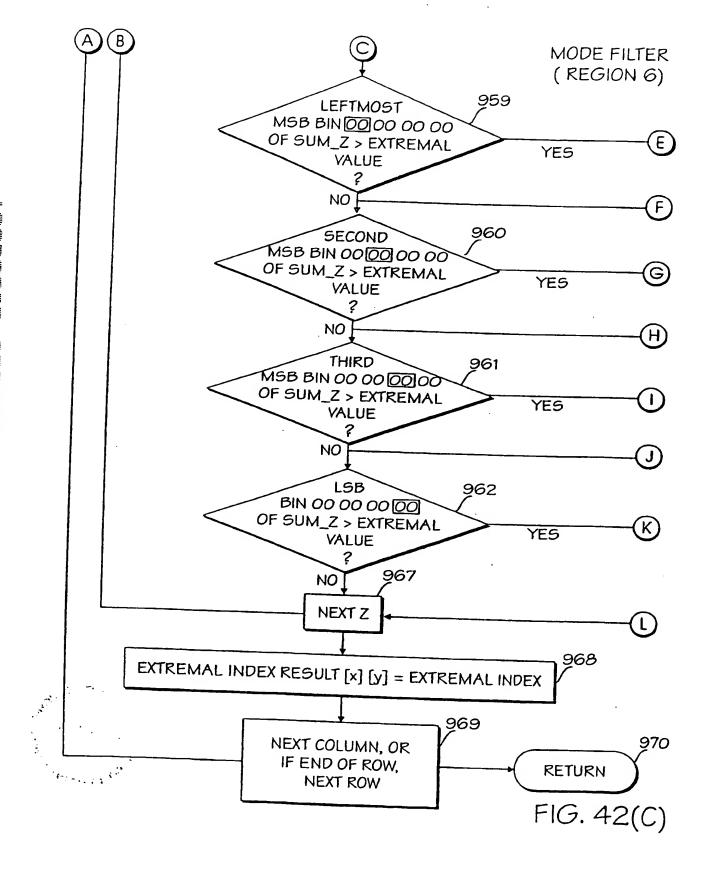


FIG. 42(A)

MODE FILTER (REGION 6)

| | DISP | DISPARITY COUNT [x+Z] | |
|---|------|-----------------------|-----|
| | 0 | [x] 00 00 00 00 | Ì |
| | 1 | [X] 00 00 00 00 | 1 |
| | 2 | [x] 00 00 00 00 | 971 |
| | 3 | [x] 00 00 00 00 | r |
| | 4 | [x+1] 00 00 00 00 | |
| | 5 | [x+1] 00 00 00 00 | |
| | 6 | [x+1] 00 00 00 00 | |
| | 7 | [x+1] 00 00 00 00 | |
| | 8 | [x+2] 00 00 00 00 | |
| | 9 | [x+2] 00 00 00 00 | |
| | 10 | [x+2] 00 00 00 00 | |
| _ | 11 | [x+2] 00 00 00 00 | |
| | 12 | [x+3] [00] 00 00 00 | |
| | 13 | [x+3] 00 00 00 00 | |
| | 14 | [x+3] 00 00 00 00 | |
| | 15 | [x+3] 00 00 00 00 | |
| | 16 | [x+4] 00 00 00 00 | |
| | 17 | [x+4] 00 00 00 00 | |
| 1 | 18 | [x+4] 00 00 00 00 | |
| 1 | 19 | [x+4] 00 00 00 00 | |
| I | 20 | [x+5] 00 00 00 00 | |
| 1 | 21 | [x+5] 00 00 00 00 | |
| | 22 | [x+5] 00 00 00 00 | |
| | 23 | 3 60 00 | |
| l | | [x+5] 00 00 00 00 | |
| ı | | | |

FIC 10(B)



MODE FILTER (REGION 6)

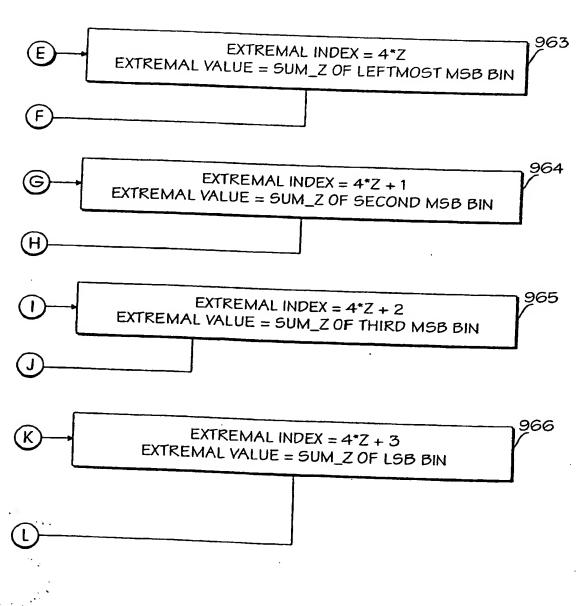
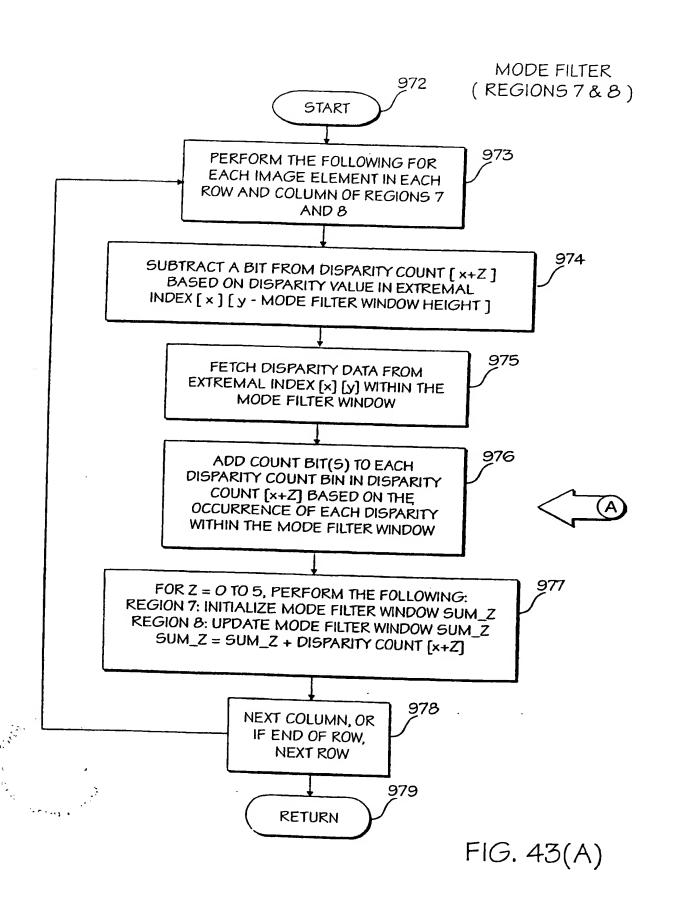


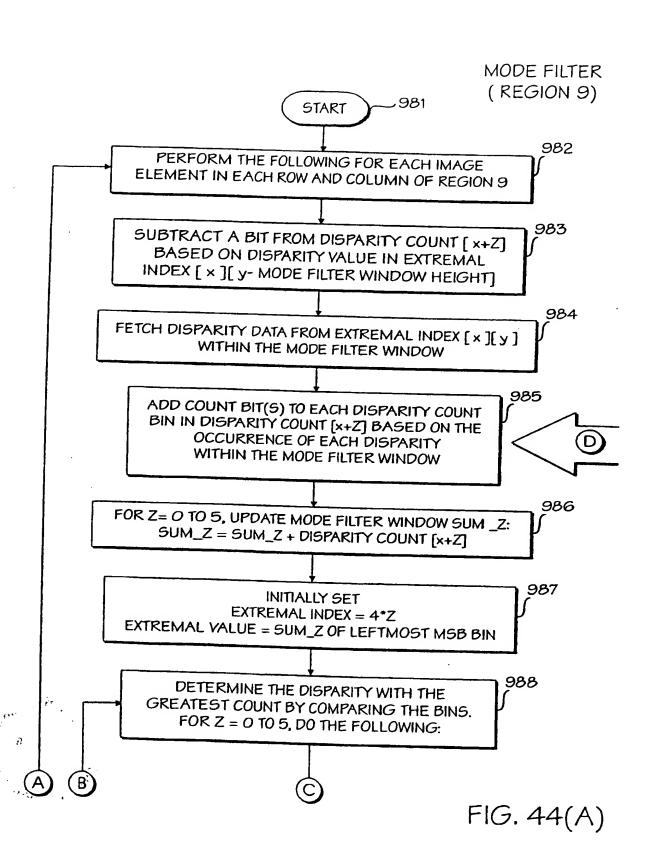
FIG. 42(D)



MODE FILTER (REGIONS 7 & 8)

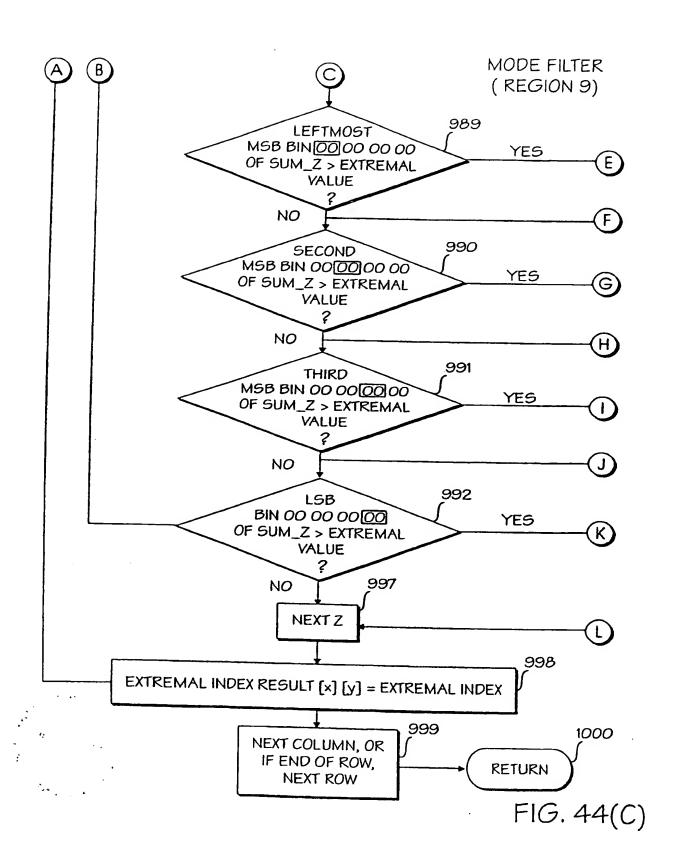
| | | 980 |
|----------|------|------------------------|
| | | <i></i> |
| | DISP | DISPARITY COUNT [x+Z] |
| | 0 | [x] 00 00 00 00 |
| | 1 | [x] 00 00 00 00 |
| | 2 | [x] 00 00 00 00 |
| | 3 | [x] 00 00 00 <u>00</u> |
| | 4 | [×+1] 00 00 00 00 |
| | 5 | [x+1] 00 00 00 00 |
| | 6 | [x+1] 00 00 00 00 |
| | 7 | [x+1] 00 00 00 00 |
| | 8 | [x+2] 00 00 00 00 |
| | 9 | [x+2] 00 00 00 00 |
| (A) | 10 | [x+2] 00 00 00 00 |
| | 11 | [x+2] 00 00 00 00 |
| | 12 | [x+3] 00 00 00 00 |
| 1 | 13 | [x+3] 00 00 00 00 |
| ł | 14 | [x+3] 00 00 00 00 |
| | 15 | [x+3] 00 00 00 00 |
| | 16 | [x+4] [00] 00 00 00 |
| | 17 | [x+4] 00 00 00 00 |
| | 18 | [x+4] 00 00 00 00 |
| İ | 19 | [x+4] 00 00 00 00 |
| | 20 | [x+5] [00] 00 00 00 |
| | 21 | [x+5] 00 00 00 00 |
| | 22 | [×+5] 00 00 00 00 |
| | 23 | [x+5] 00 00 00 00 |
| | | 2 3 20 00 00 00 |
| | | |
| tangan s | | |

FIG. 43(B)



MODE FILTER (REGION 9)

FIG. 44(B)



MODE FILTER (REGION 9)

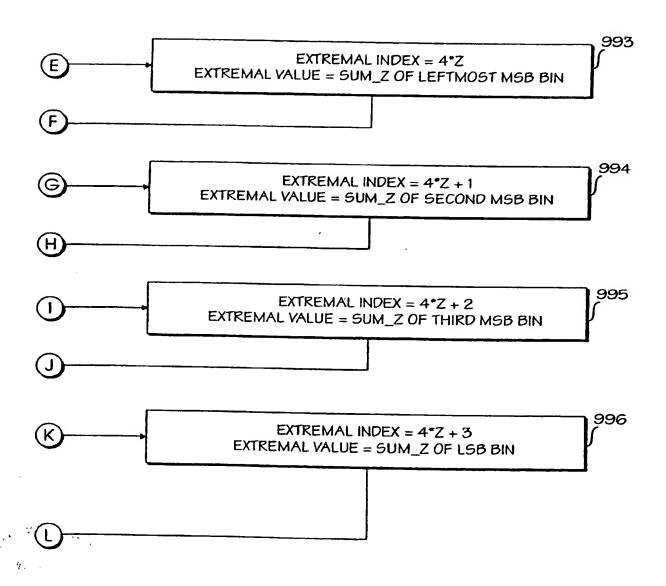
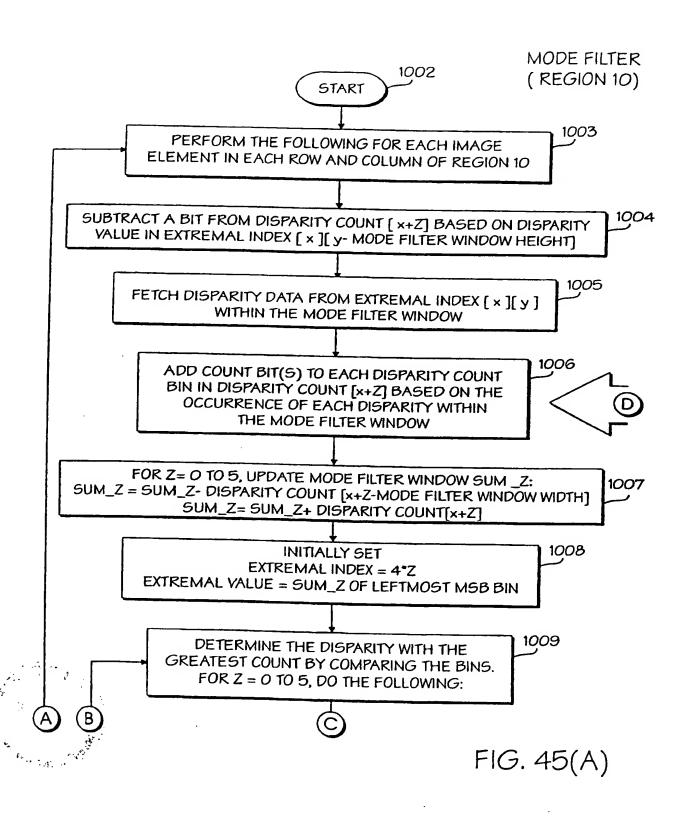
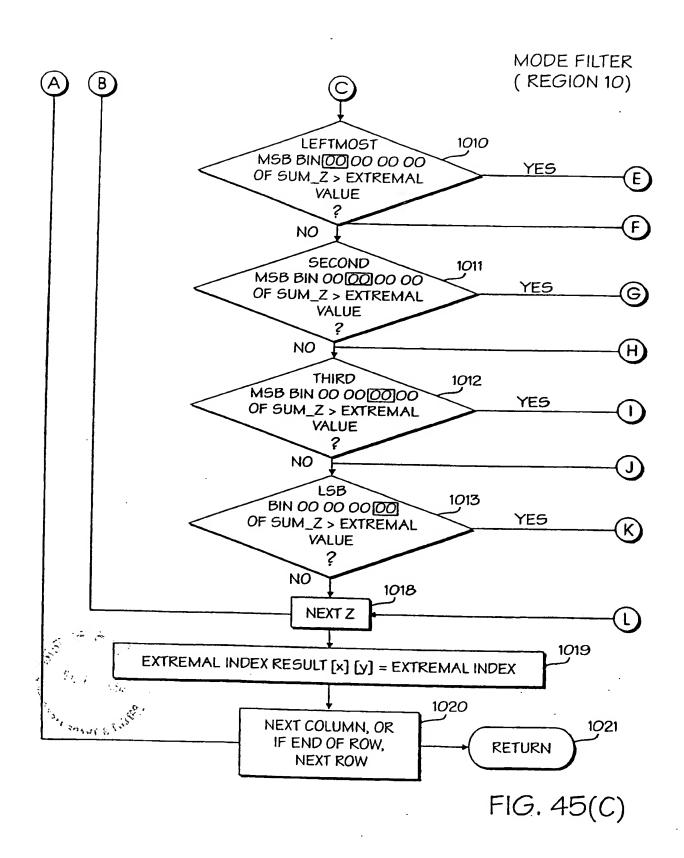


FIG. 44(D)



MODE FILTER (REGION 10)

| DISP | DISPARITY COUNT [x+Z] | 1022 |
|--|--|------|
| DISP 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | DISPARITY COUNT [x+Z] [x] | 1022 |
| 19 20 | [x+4] 00 00 00 00 [x+4] 00 00 00 00 [x+5] 00 00 00 00 | |
| 21 22 23 | [x+5] [00] 00 00 00 [x+5] 00 [00] 00 00 [x+5] 00 00 [00] 00 [x+5] 00 00 00 [00] | |
| | | |



MODE FILTER (REGION 10)

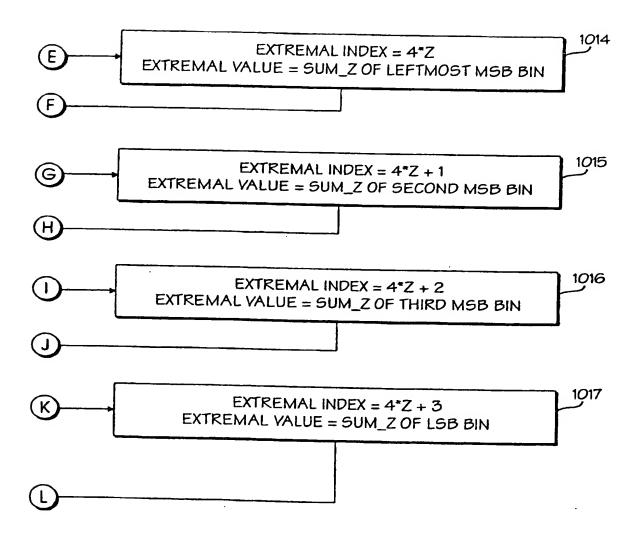
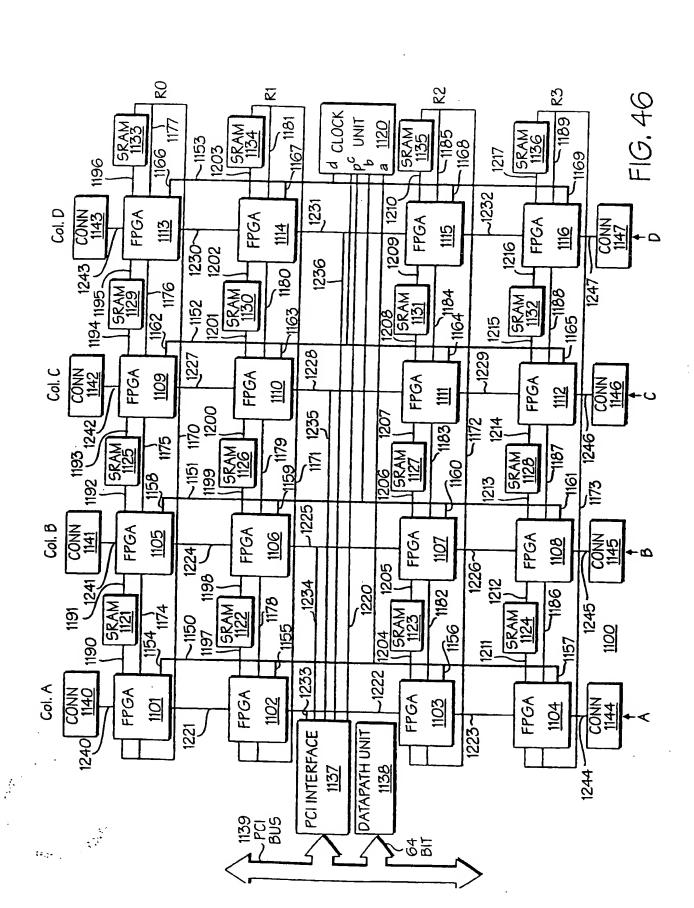
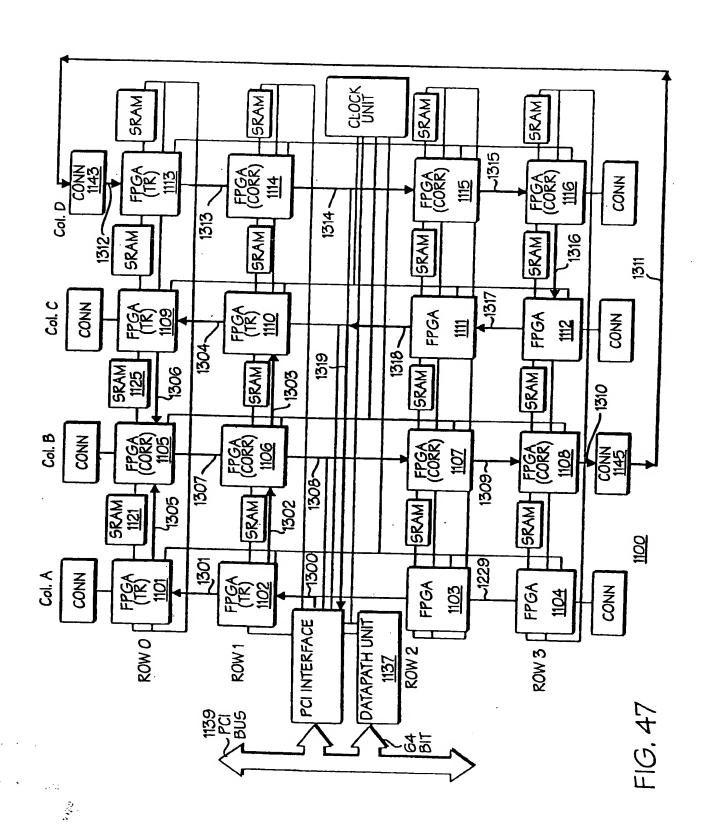
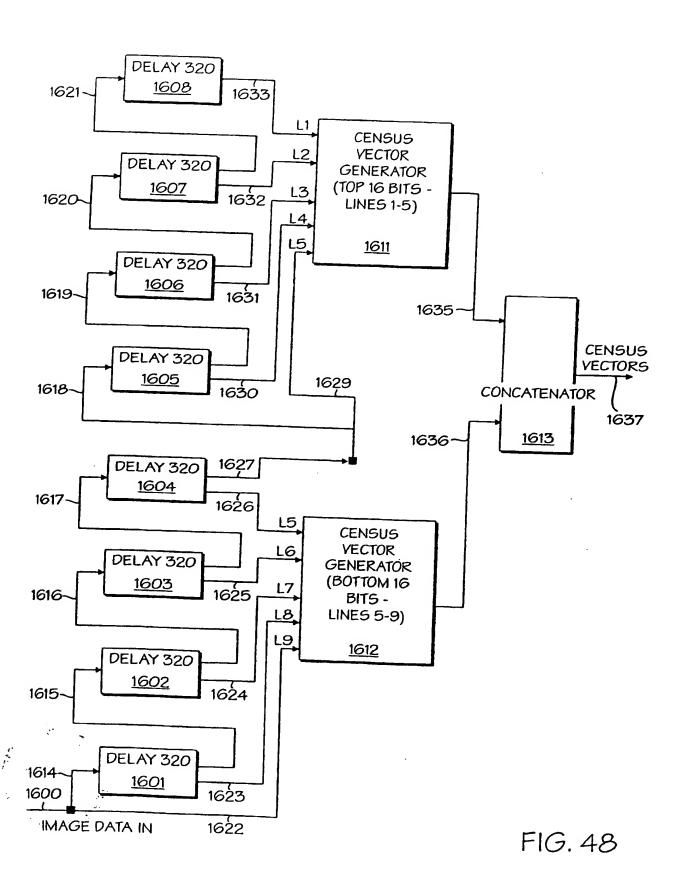


FIG. 45(D)



). 2





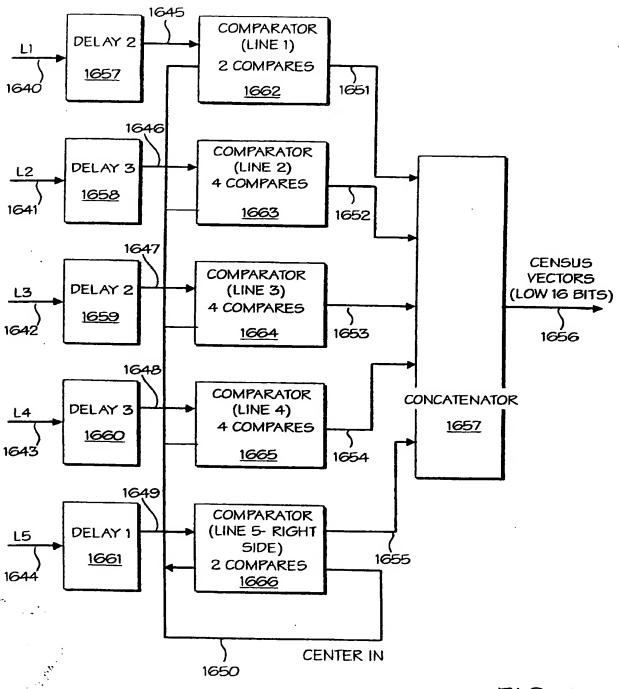
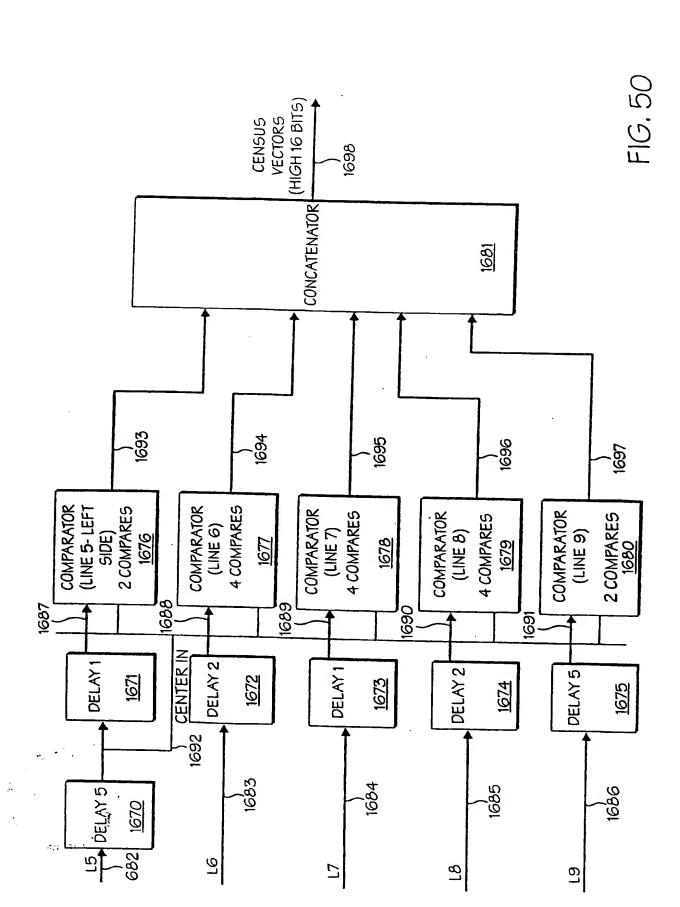
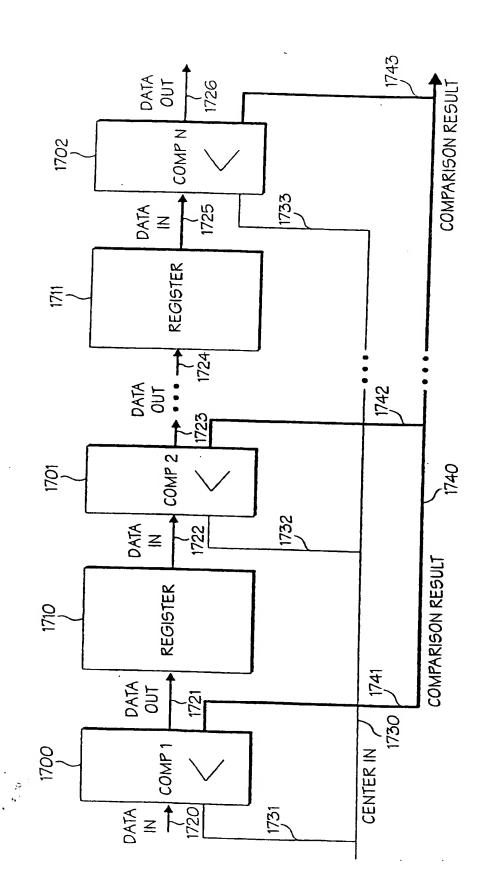
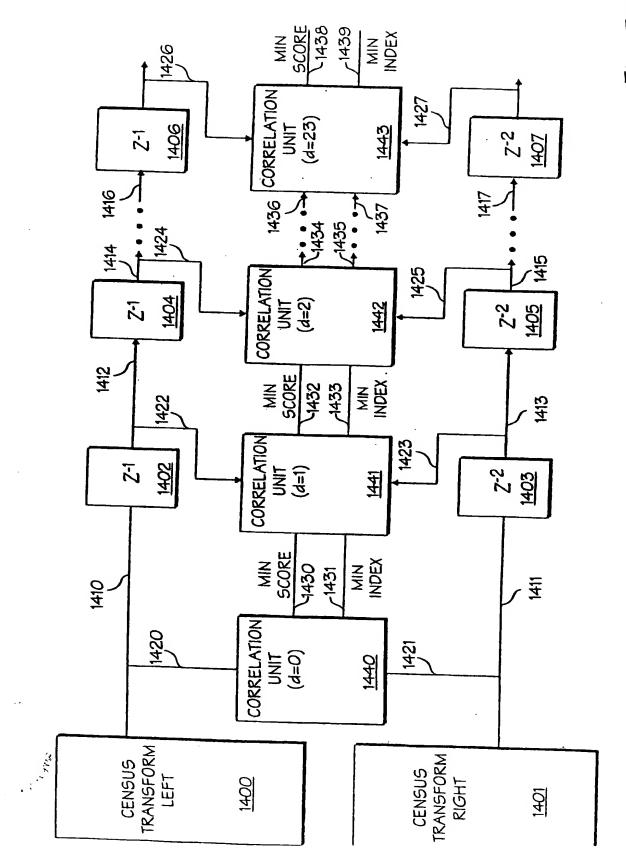


FIG. 49





ACCEPTED CHAPICE



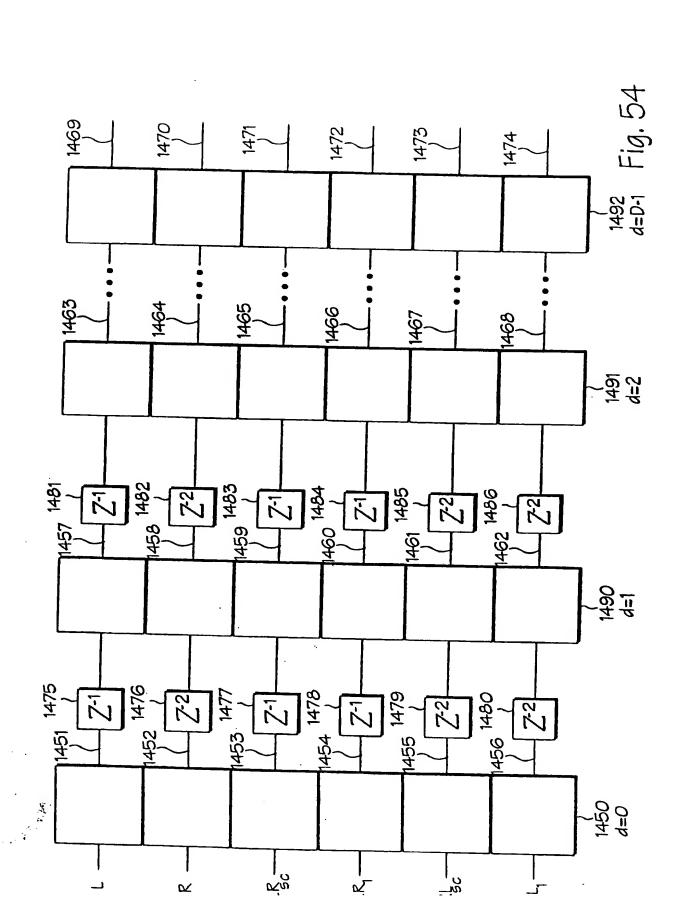
CENSUS VECTORS RIGHT IMAGE

Fig. 53(A)

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2' 3' 4' 5' 6' 7' 8' 9' 10' •

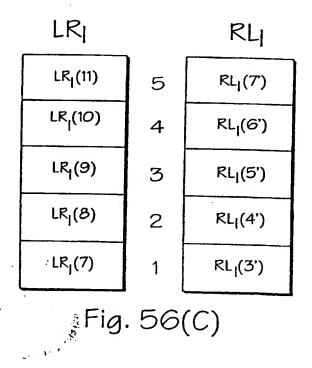
Fig. 53(B)

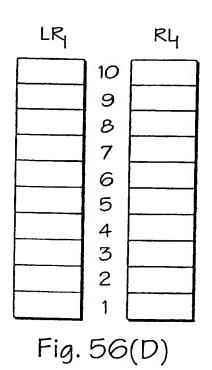


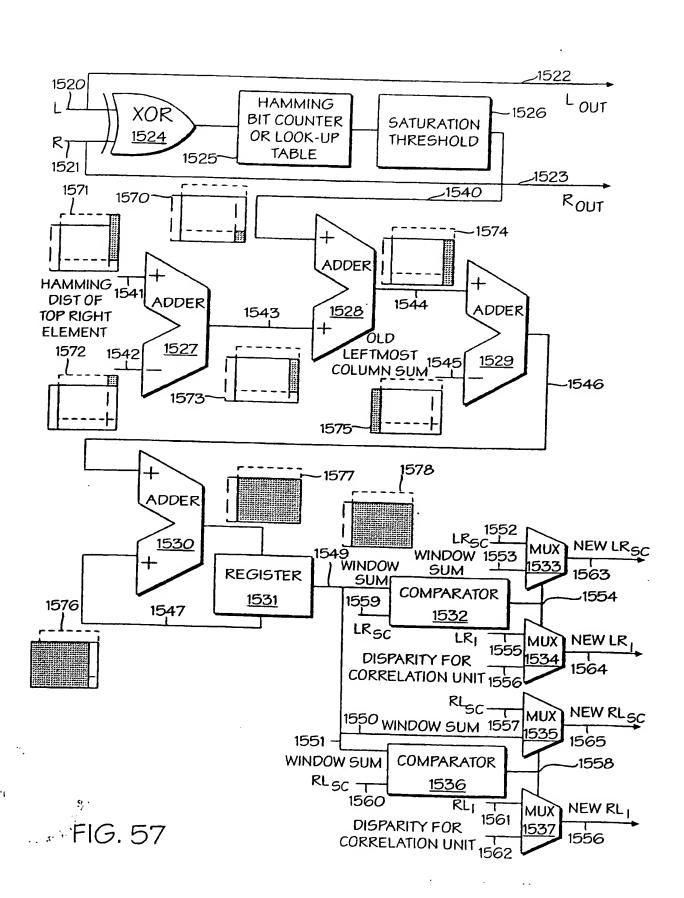
15 IMAGE ELEMENTS (1 TO 15 FOR L; 1' TO 15' FOR R) D=5 (d= {0, 1, 2, 3, 4})

FIG. 55

| LRI | - | RL _I | | LRI | | RL_{I} |
|---------------------|---|----------------------|------------|----------------------|---|----------------------|
| LR _I (9) | 5 | RL _I (5') | | LR ₁ (10) | 5 | RL _I (6') |
| LR (8) | 4 | RL _I (4') | | LR ₁ (9) | 4 | RL _I (5') |
| LR ₁ (7) | 3 | RL ₁ (3') | | LR ₁ (8) | 3 | RL (4') |
| LR _I (6) | 2 | RL _I (2') | | LR _I (7) | 2 | RL ₁ (3') |
| LR ₍ (5) | 1 | R4(1') | | LR _I (6) | 1 | RL _I (2') |
| Fig. 56(A) | | | Fig. 56(B) | | | |







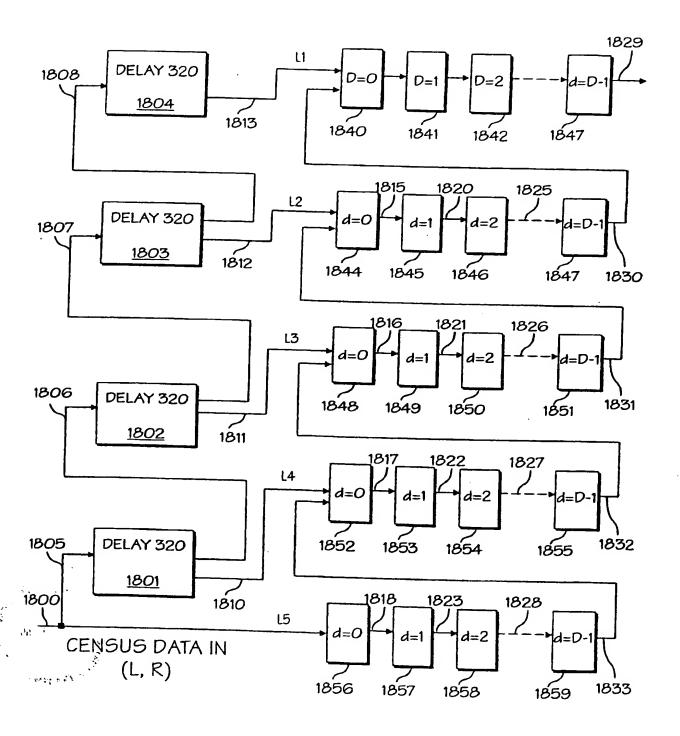


FIG. 58

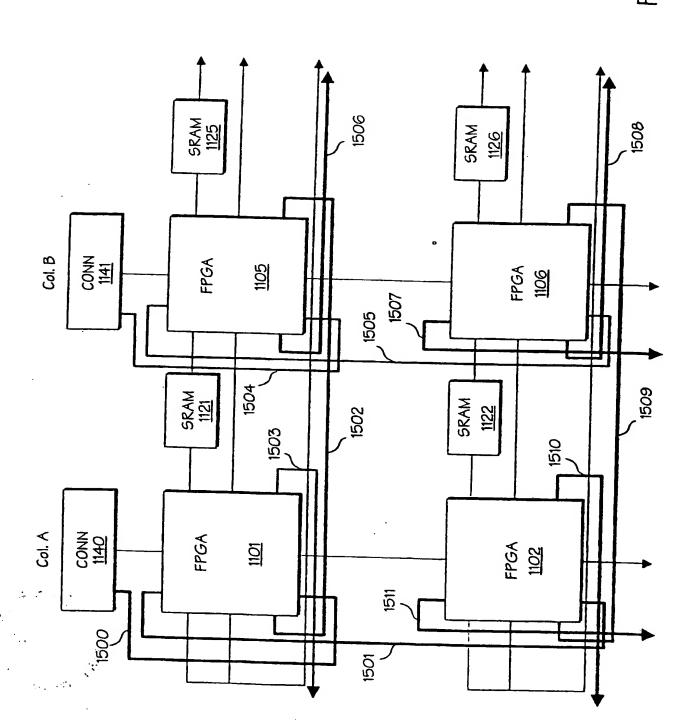
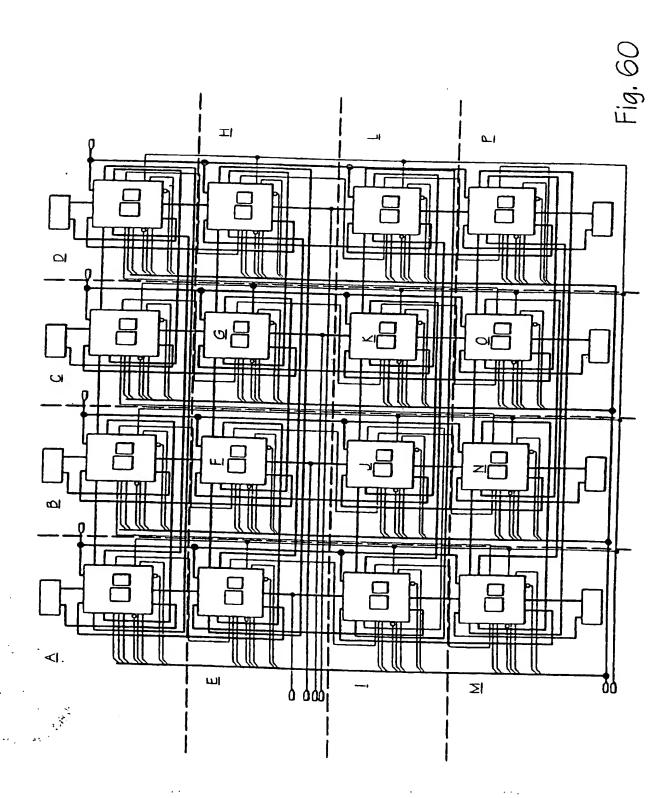
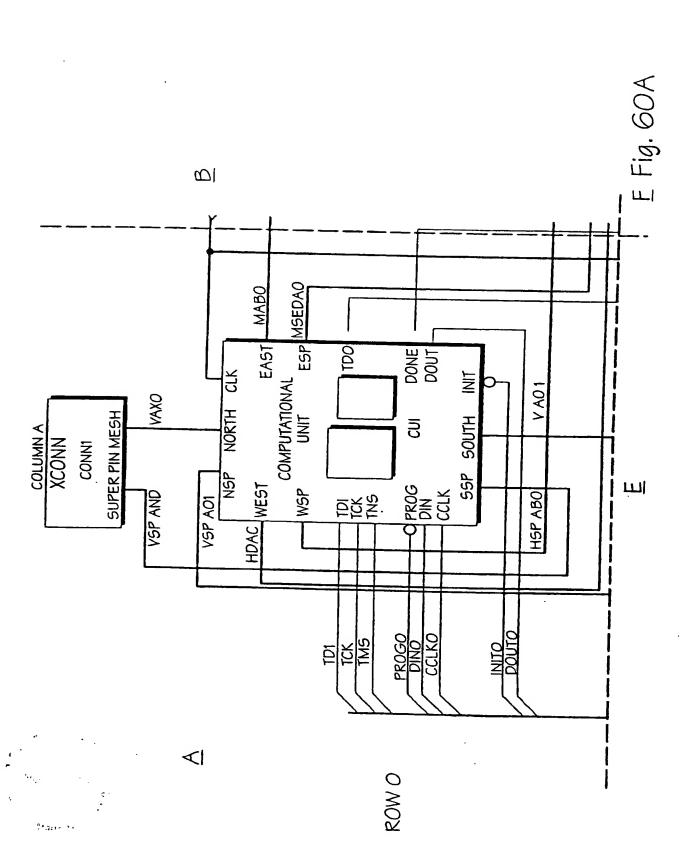
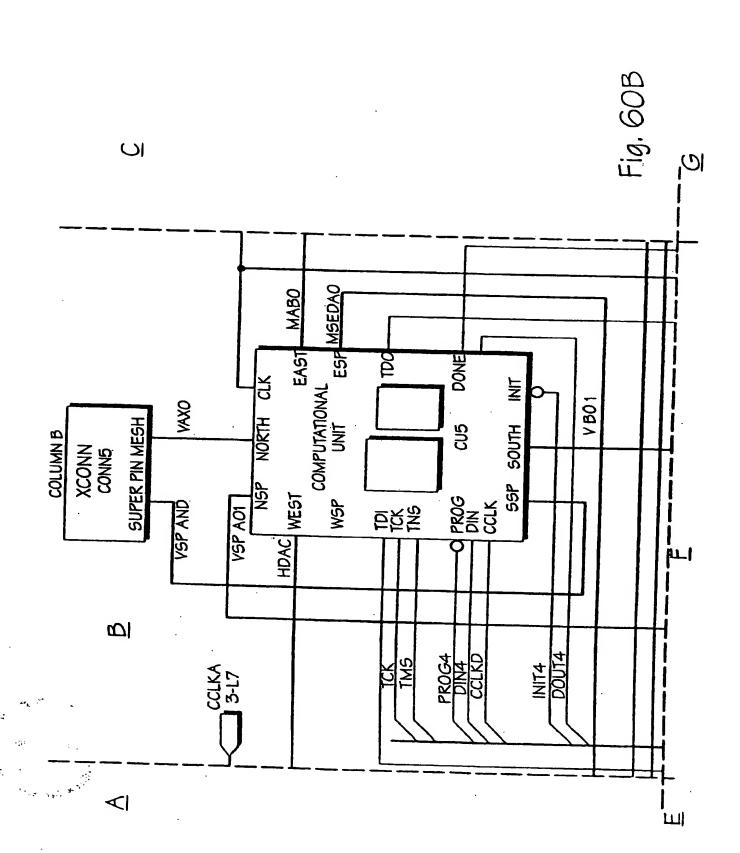
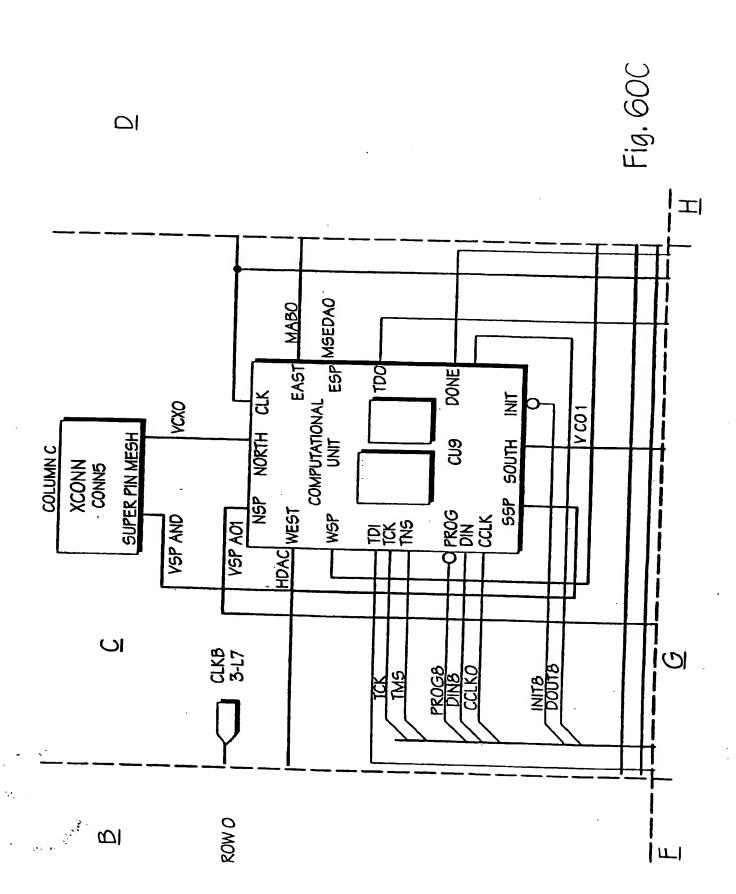


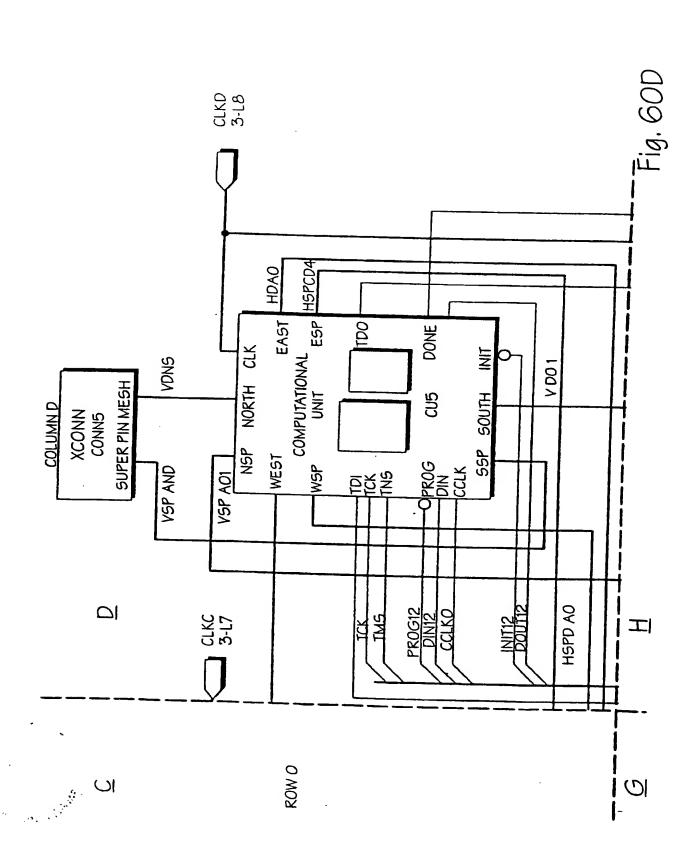
FIG. 59

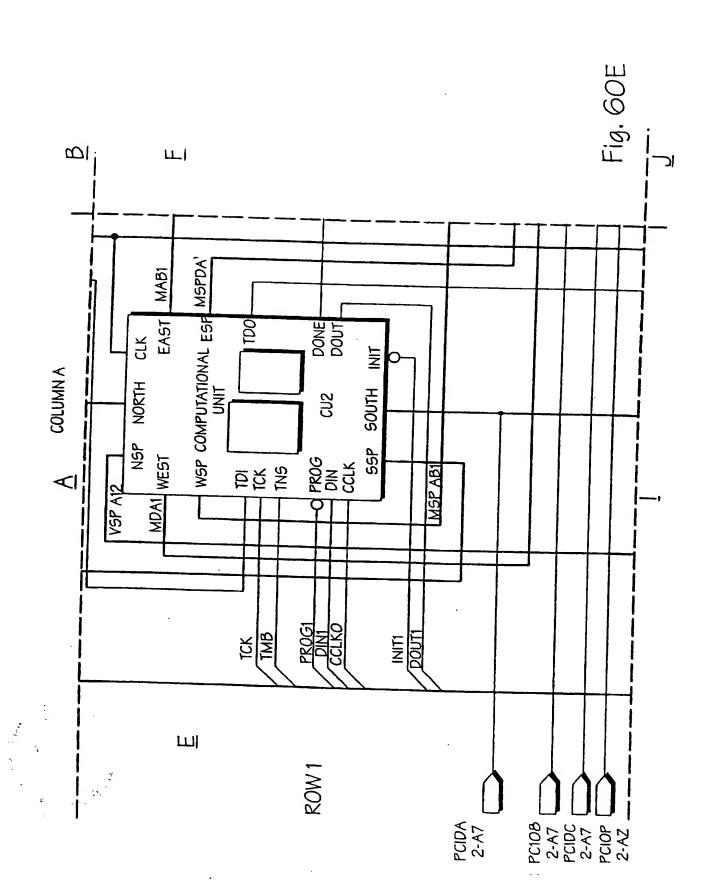


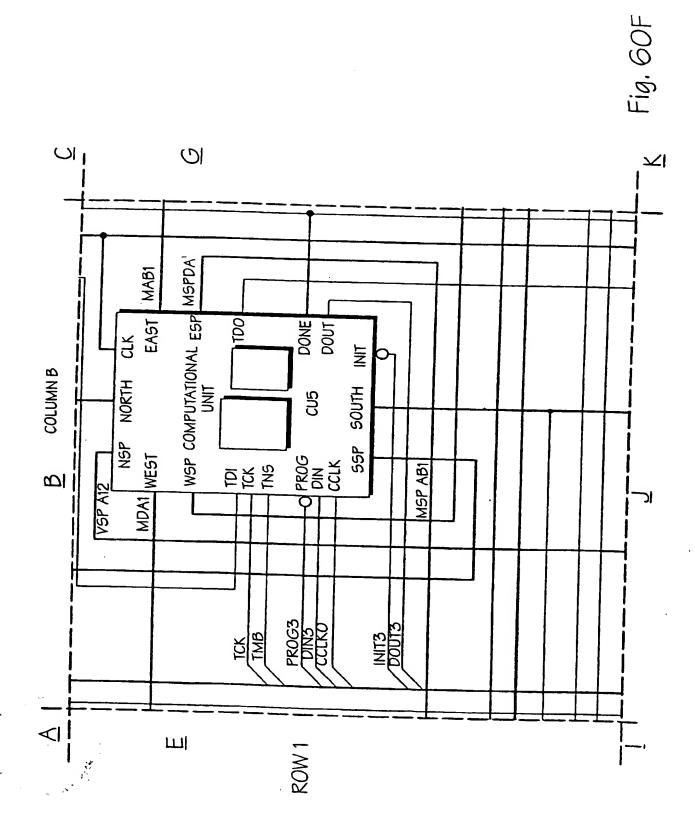


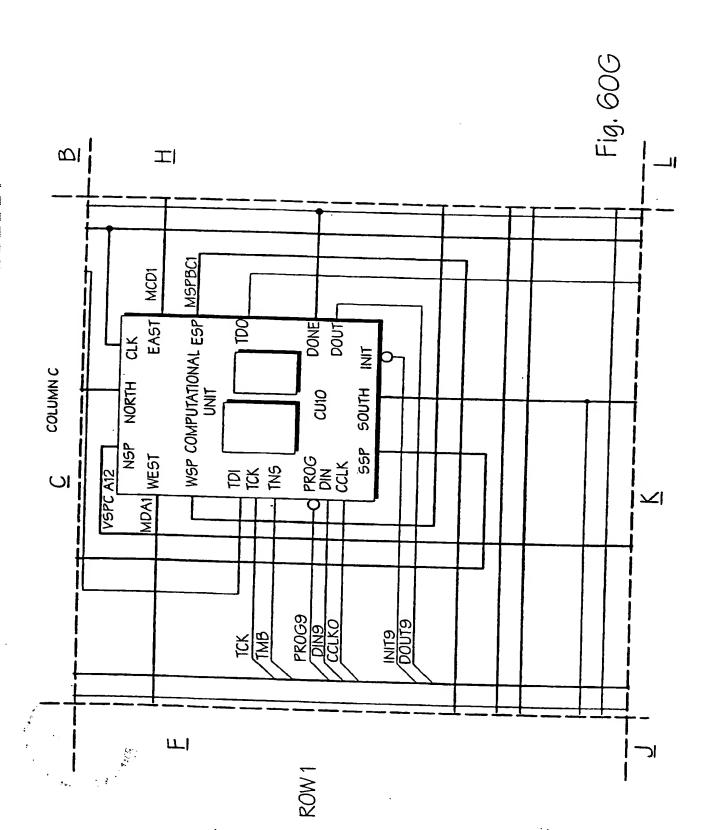


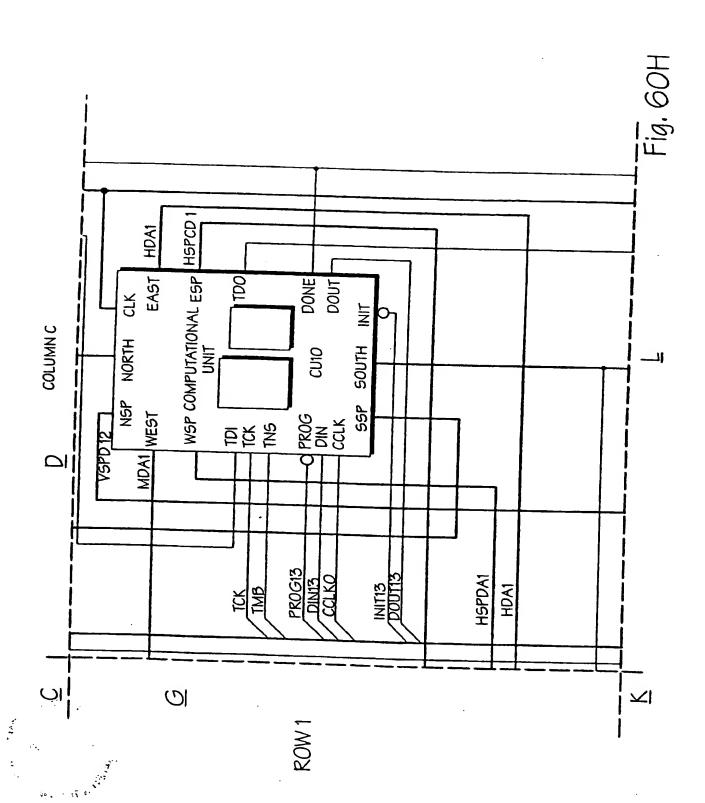


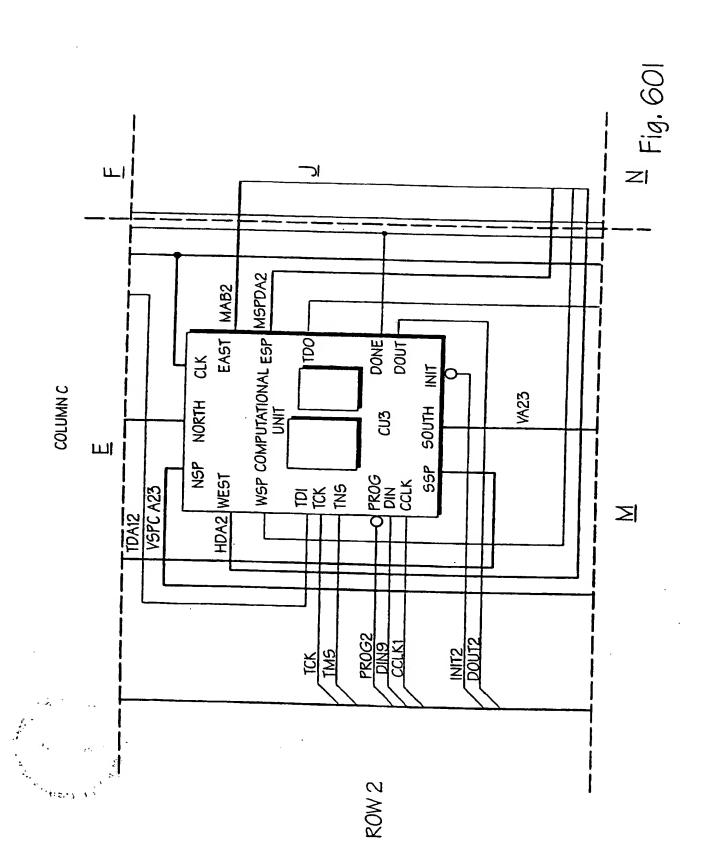


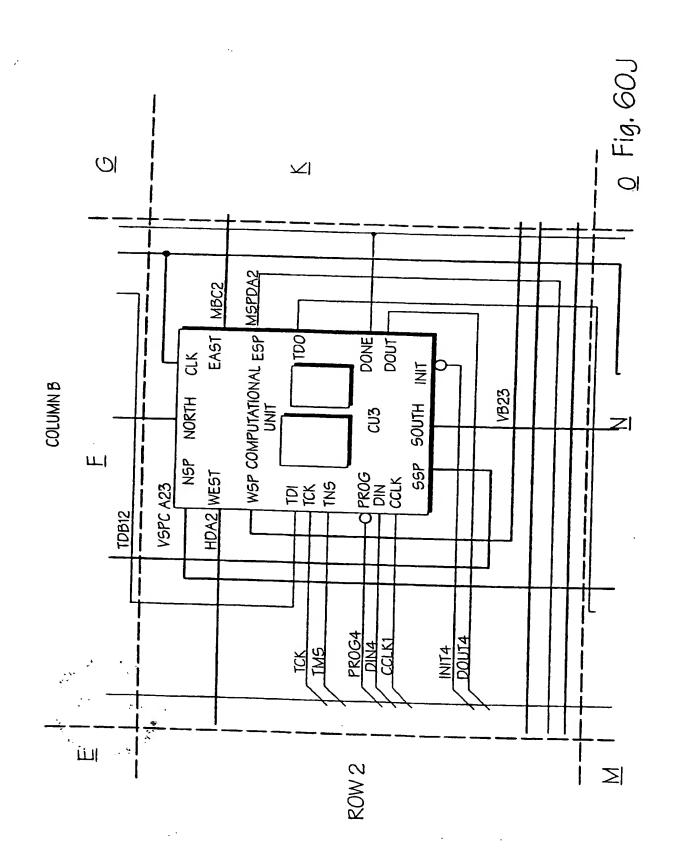


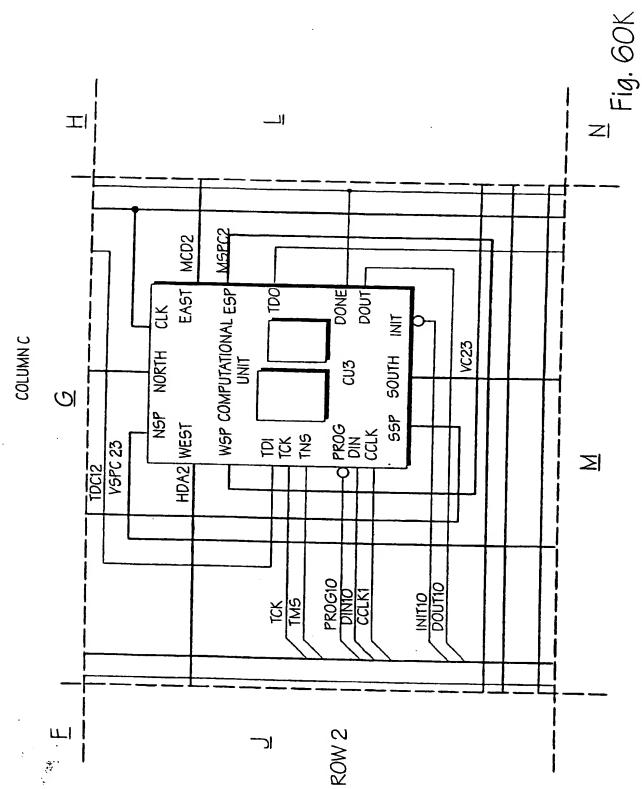




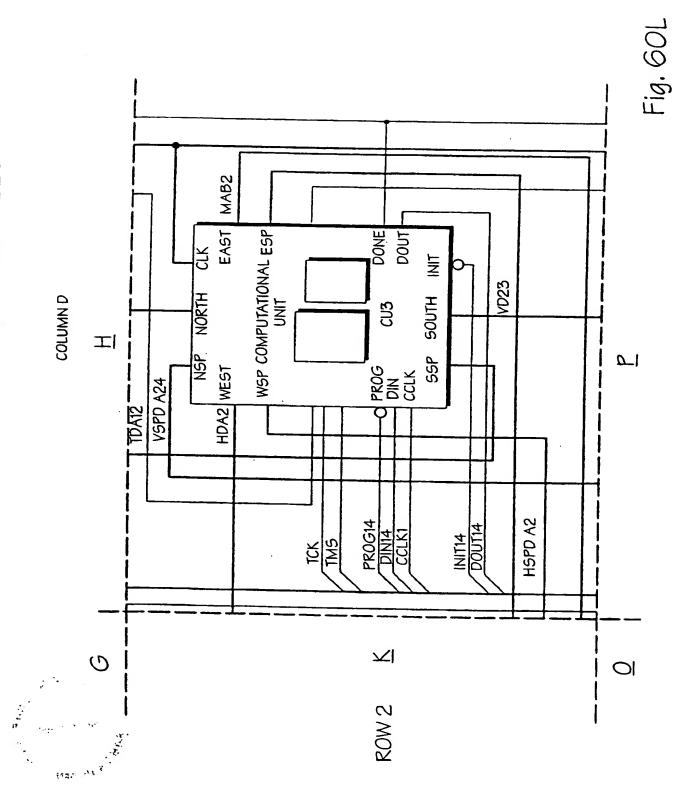








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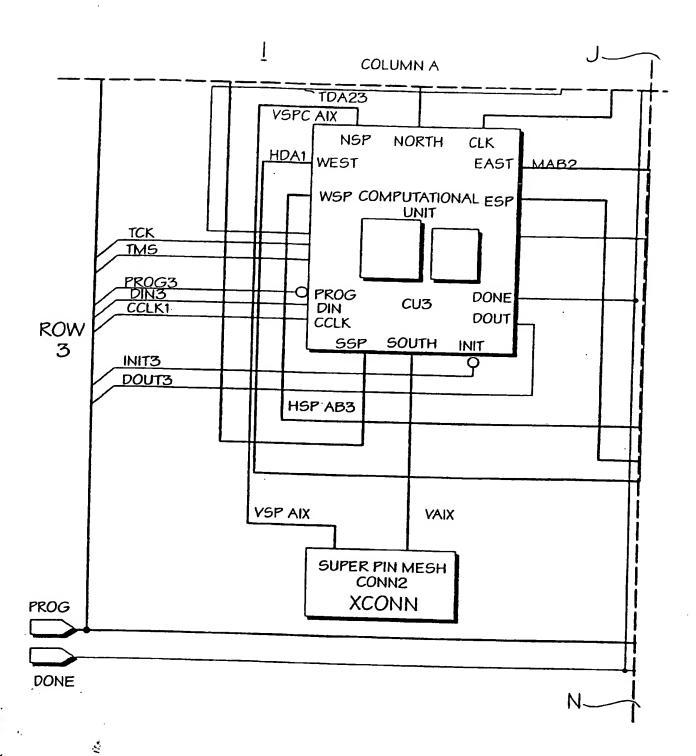


Fig. 60M

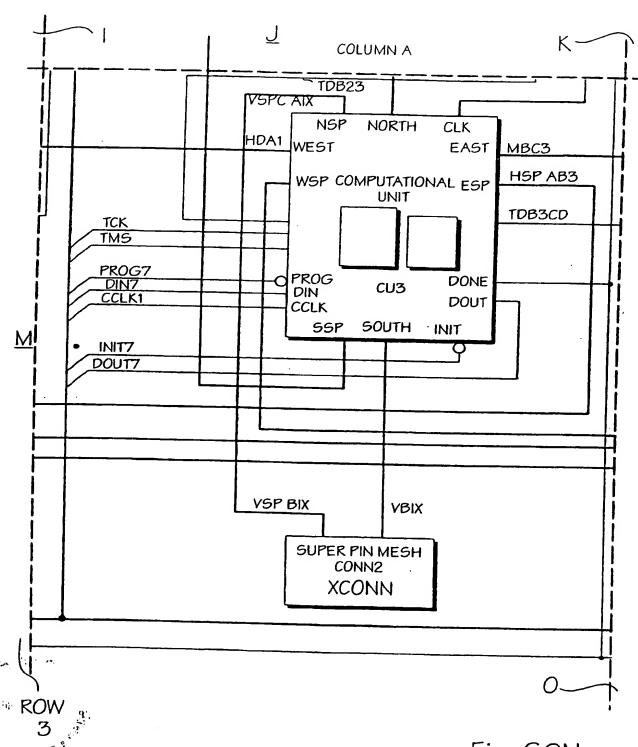


Fig. 60N

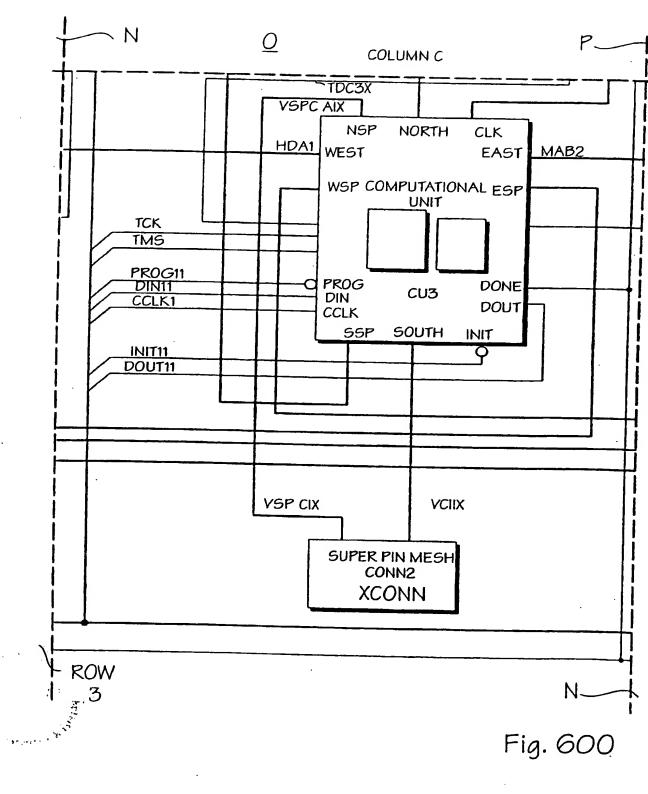


Fig. 600

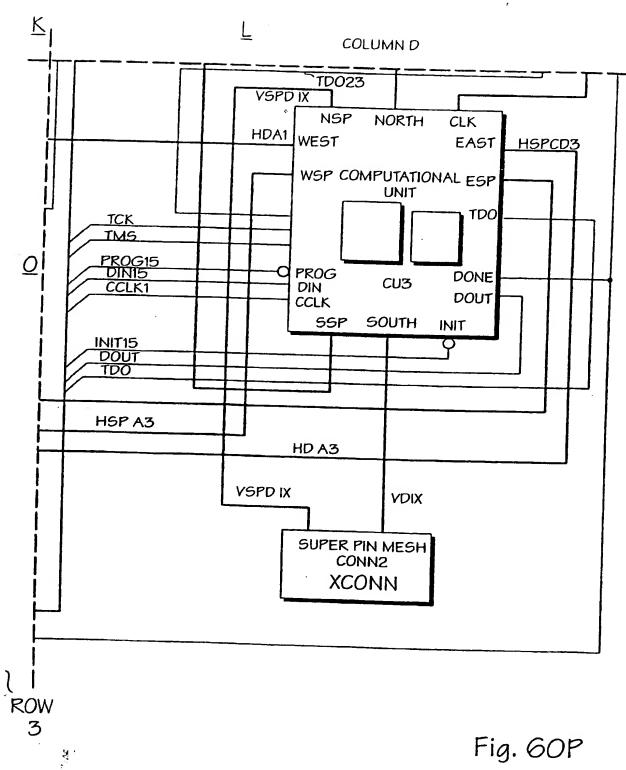
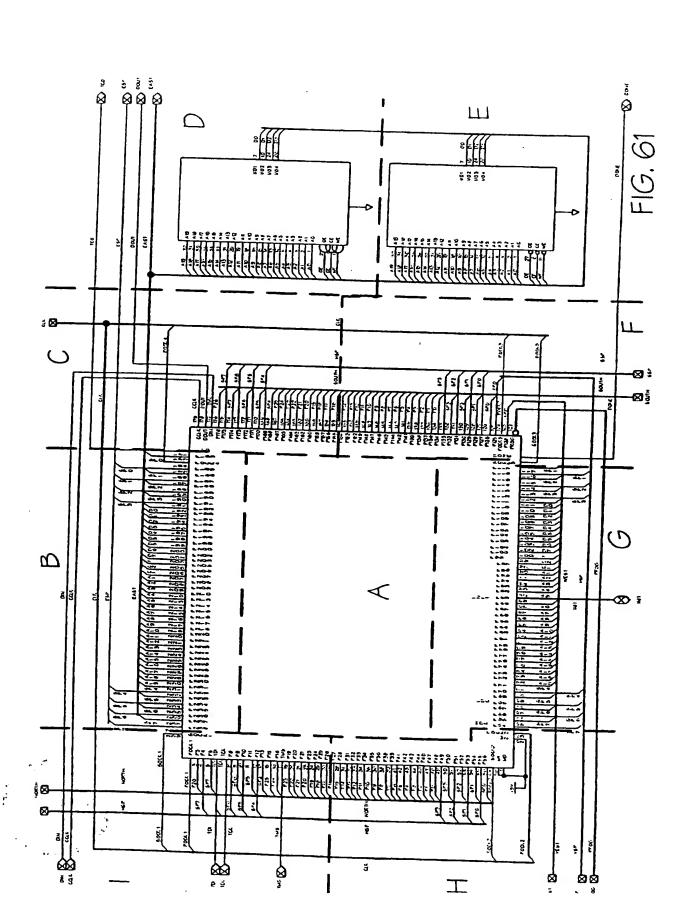


Fig. 60P



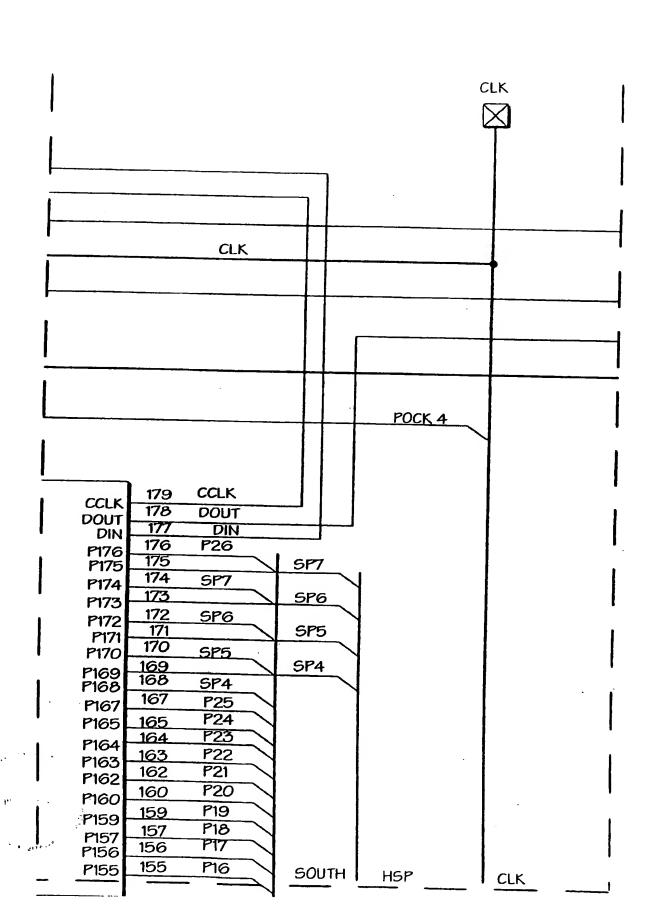
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| | | ı | 1 | | √√0 | N-V | 20-0 |
| | | ł | - 1 | | <u>₹-0</u> | 0-0 | 0000 |
| | | | - 1 | | ₹ | 000 | F00F |
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FIG. 61(B)



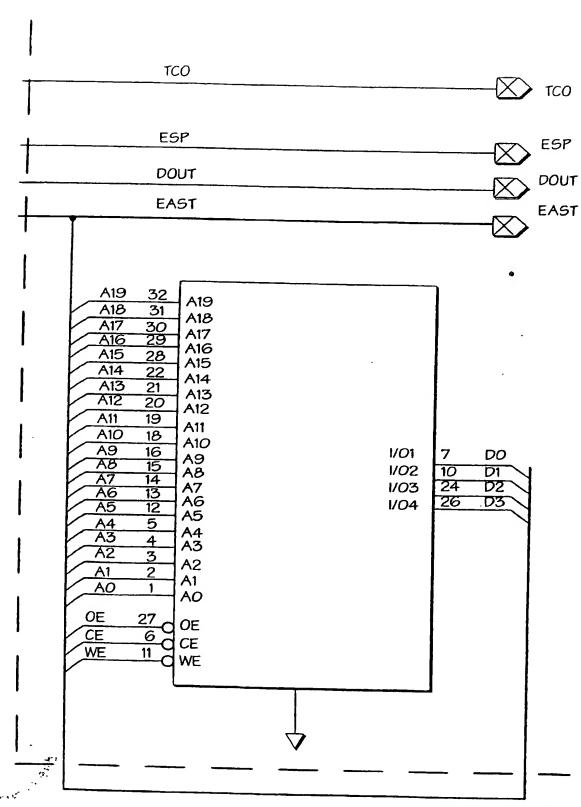
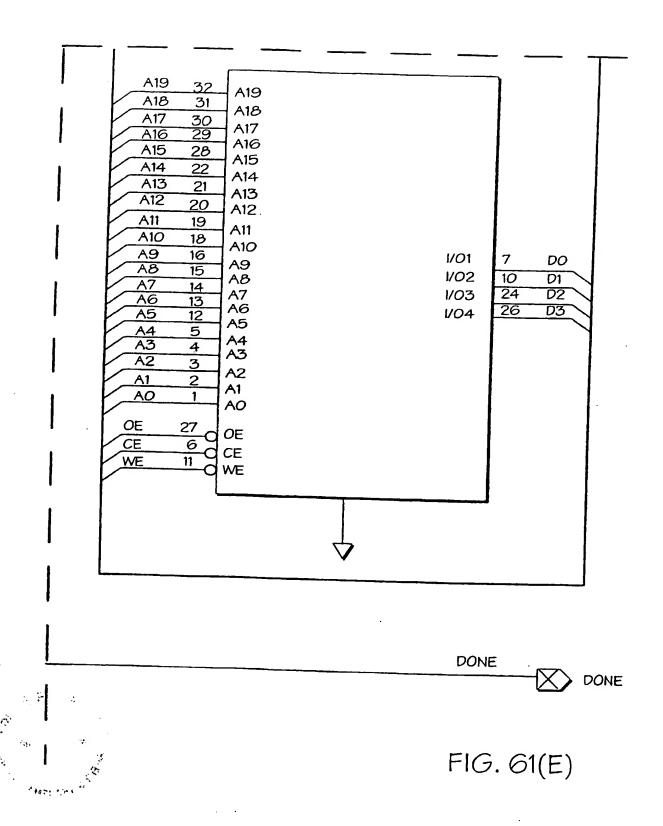
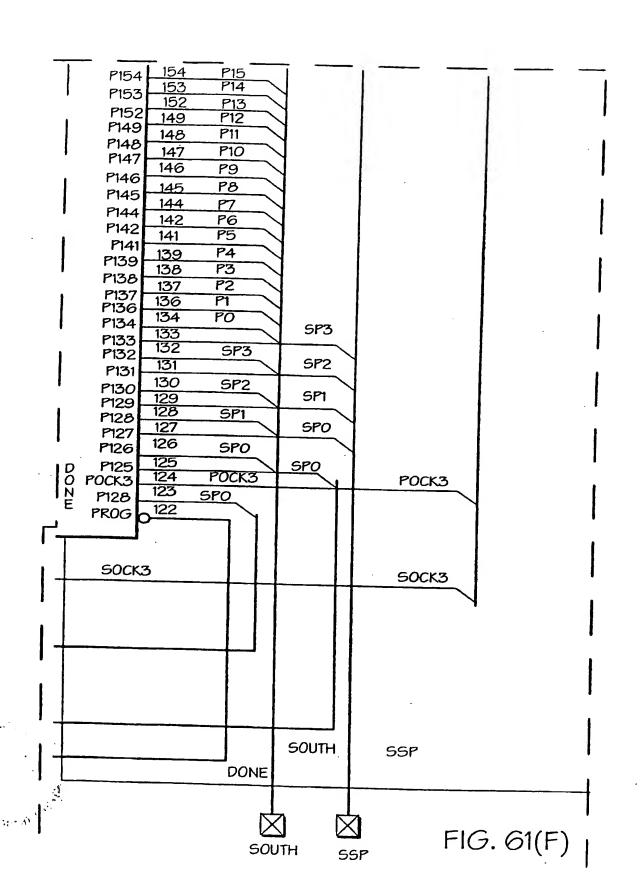
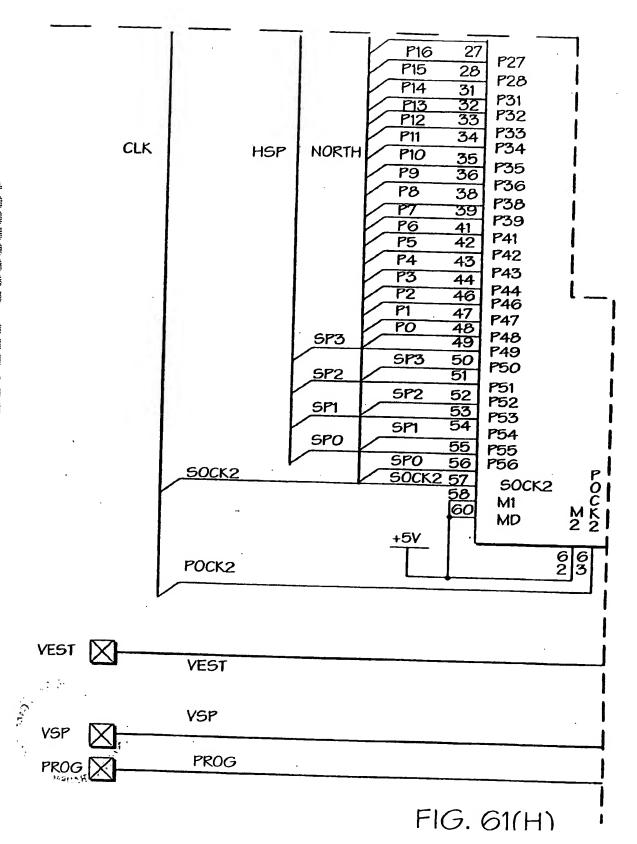


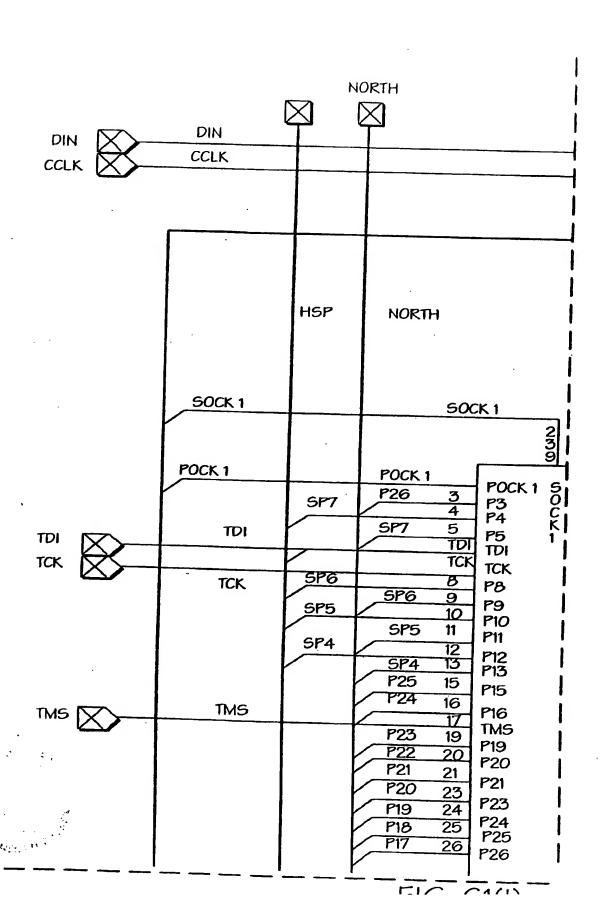
FIG. 61(D)



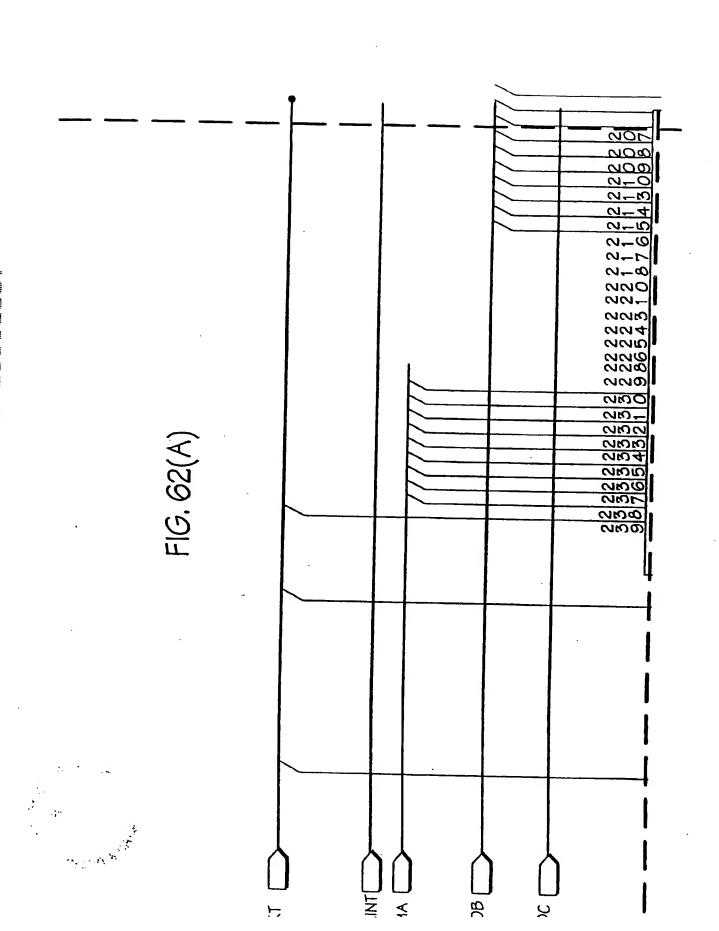


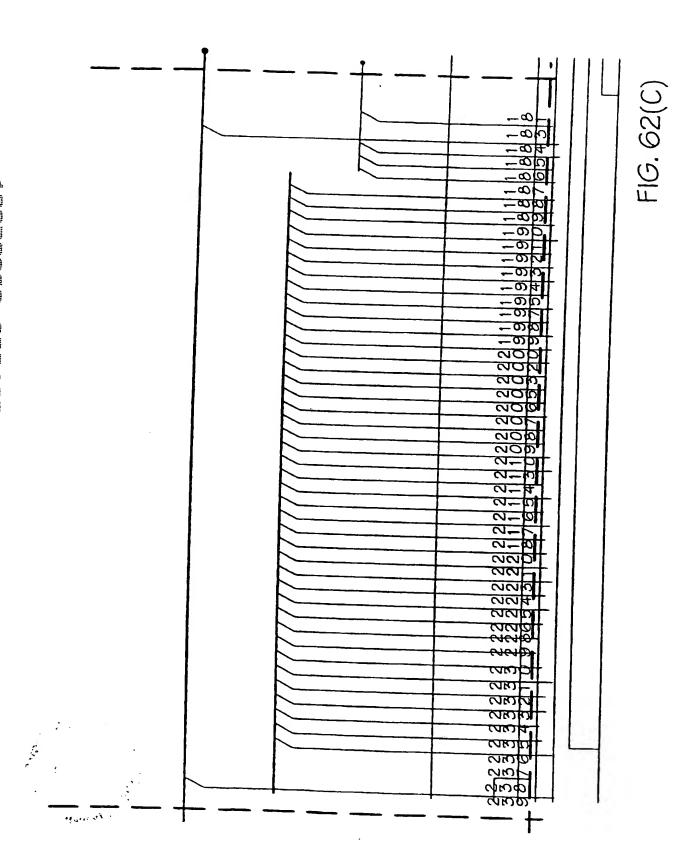
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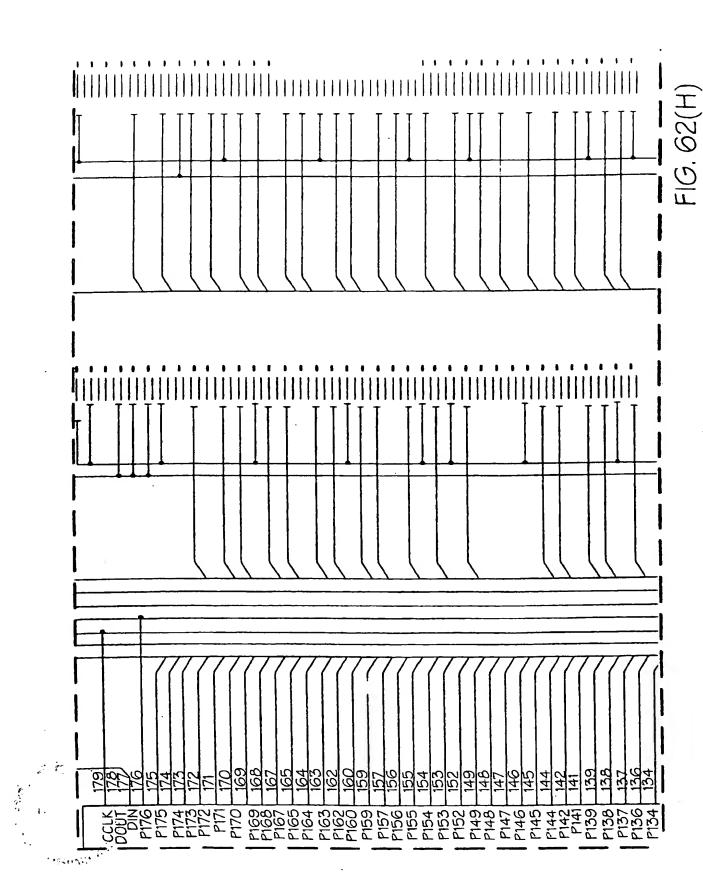


| 2000 | | FIG. 62(E) |
|--|---|--------------------------------------|
| 2 POCK16 P P P P P P P P P P P P P P P P P P P | 2 | 44 P44 44 P44 46 P44 47 P46 |

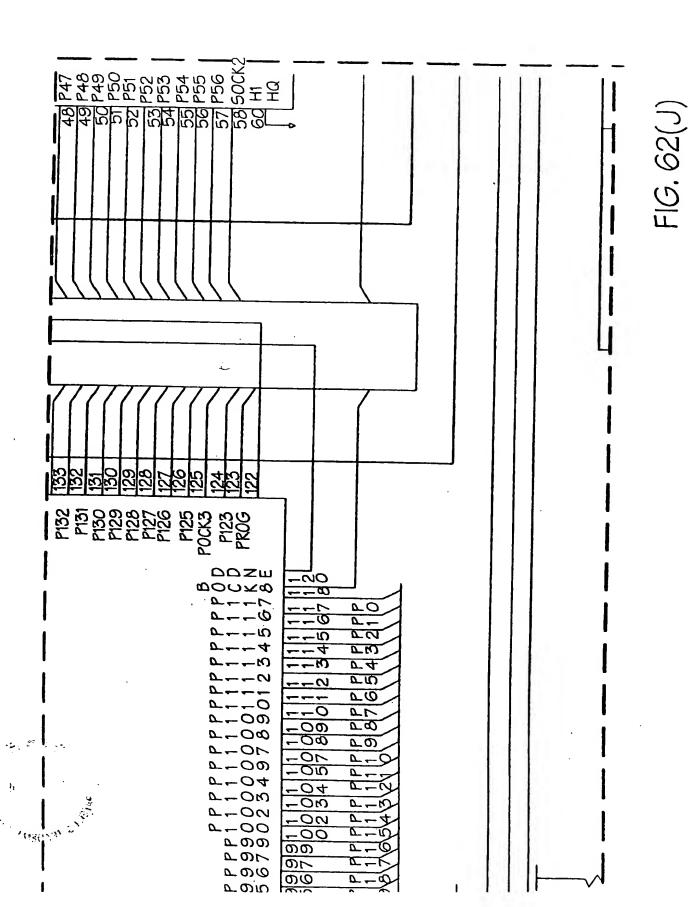
| 2 POCK1 | 1 1 1 1 1 1 1 1 1 1 | FIG. 62(F) |
|---------------------------------------|---------------------------------------|------------|
| 1 <u> </u> | | |
| 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | |

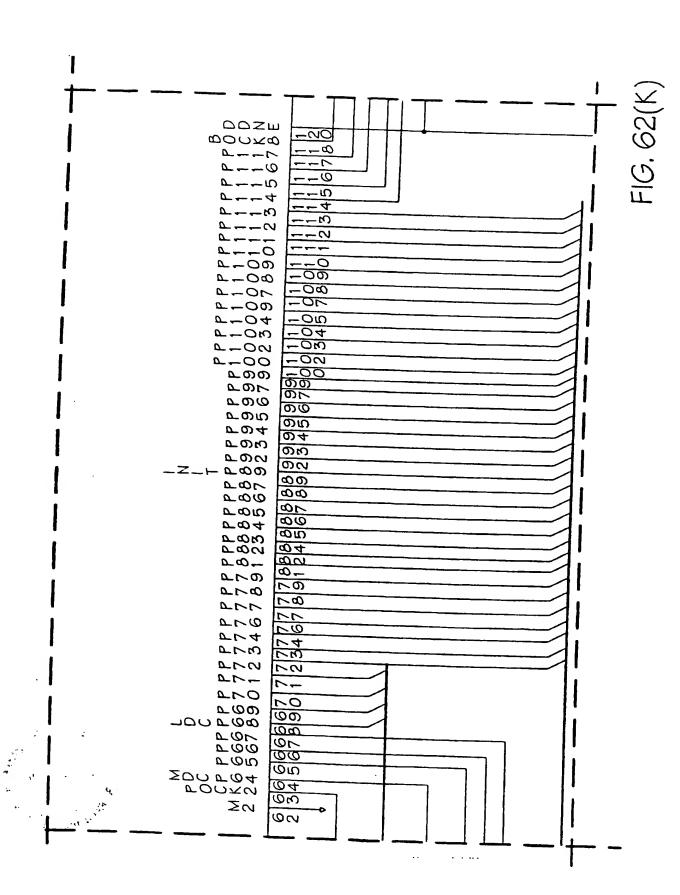
| H-00 | | |
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| D-00 | | |
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| √ −∞v | | |
| 5-00 | | |
| 2-01 | | |
| 0-00 | | |
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| F-02-12 | | |
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FIG. 62(G)



| 52 P52 P55 P56 P56 P56 P56 P56 P56 P56 P56 P56 | 2 34 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | TM944 | |
|--|--|-------|--|
| | IG. 62(I) | PCIDA | |





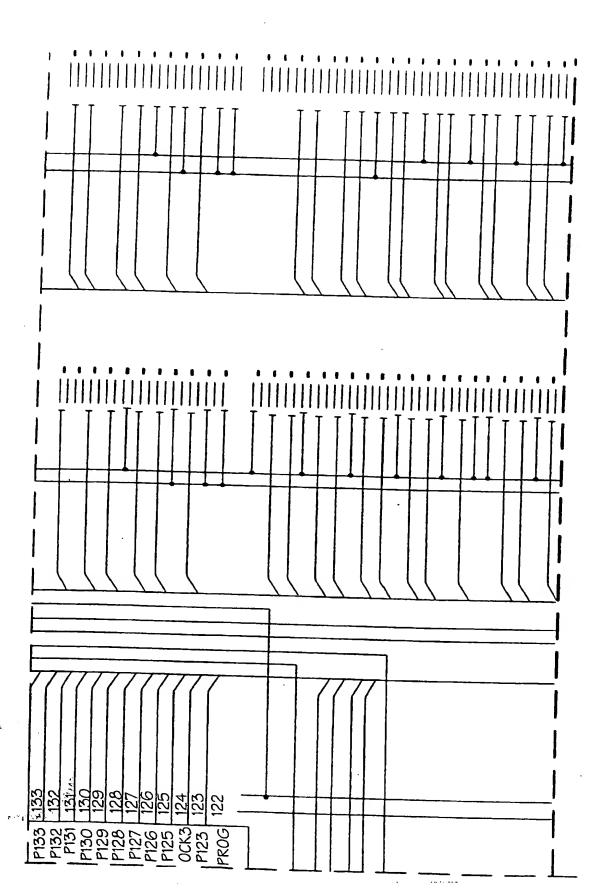
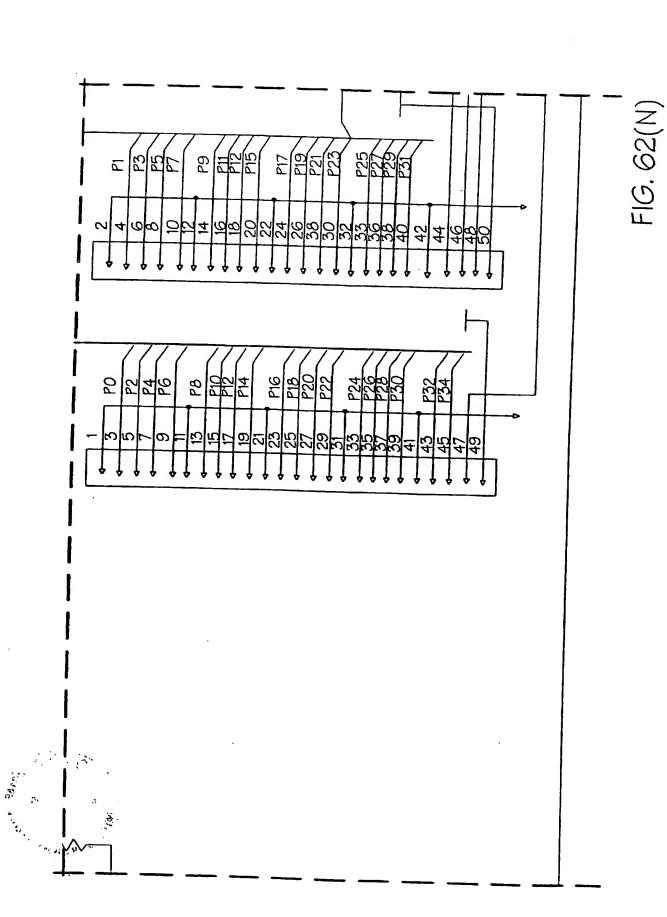
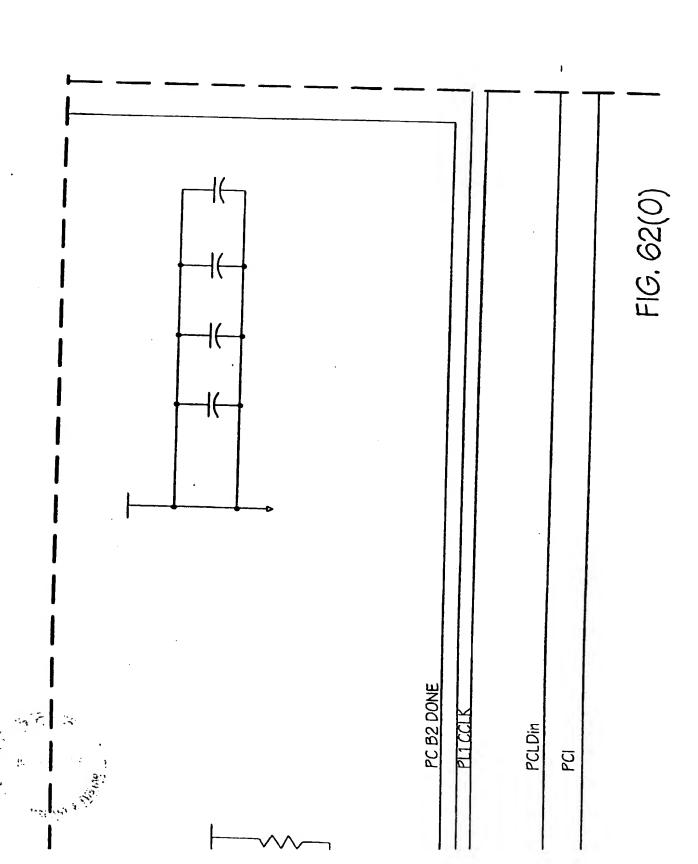
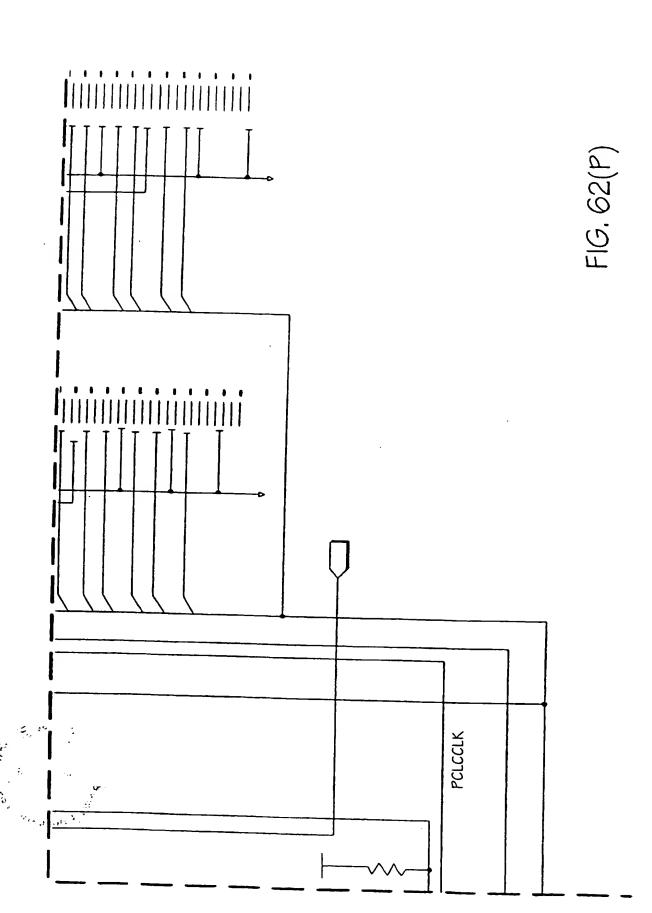
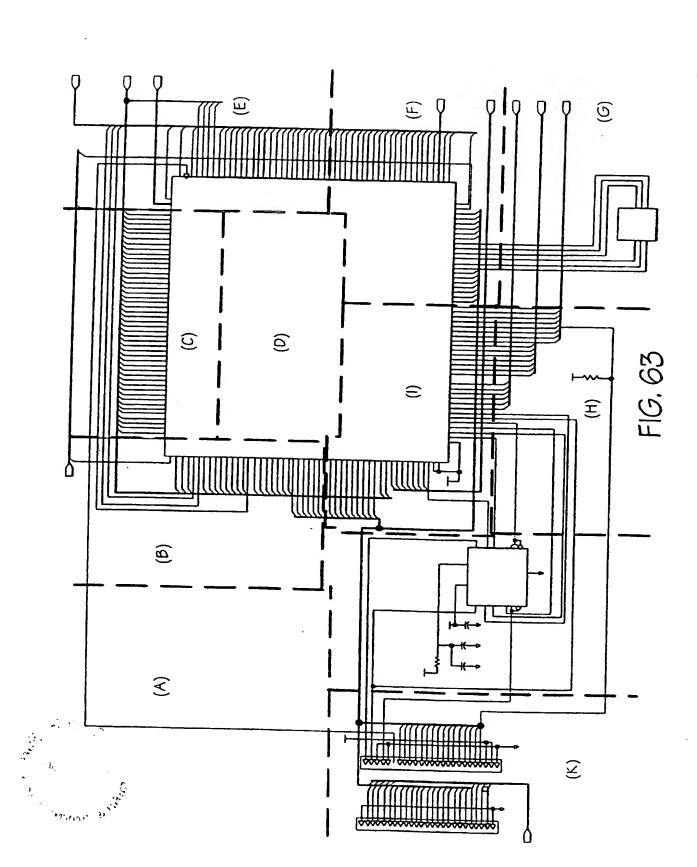


FIG. 62(L)

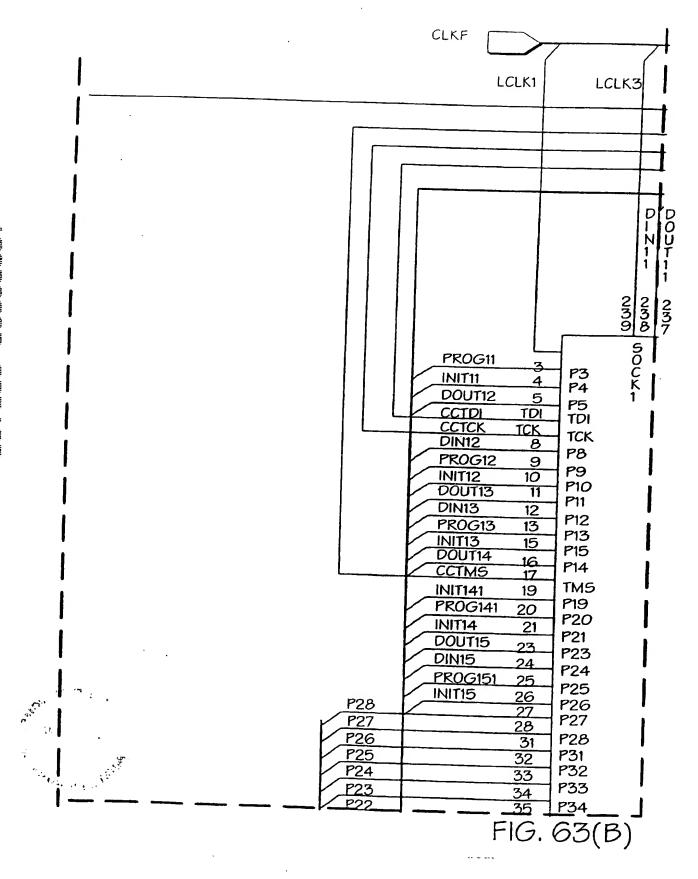








CCTRL_DOUT FIG. 63(A)



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| Q_Z0 | -00 2-00 |
| PX000 | 700-0 |
| ZEO | 00-4 |
| 203H- | -0000 |
| 0-Z- | |
| EXOO- | -00 2-0- |
| -Z-F- | -0- |
| 003F0 | -00 r-00 |
| 0-ZN | |
| | -00 -04 |
| -Z-F-01 | |
| 203⊢€ | -01 2-00 |
| O-ZW | |
| 2000 222 | -00 500 |
| -Z-H0 | 2000 |
| 003F4 | 2000 2200 |
| 0- <u>54</u> | 2000 |
| | 40m 5400 |
| -X-H4 | 2000 |
| 003FR | 0000 |
| 0-Z0 | 000 2000 |
| | <u>000</u> 20-0 |
| ~×000 | N-0 2N-W |
| 0000 | N-10 - N-4 |
| D-50 | 0-4 DO-0 |
| PR000 | N-10 2 N-0 |
| -Z-H0 | 7-12 |
| | |
| 000FV | 0202 |
| | 2000 |
| TROOL | 7000 000- |
| -ZK | (10/8) |
| 0021-0 | 1909 |
| 0-Z0 | 0000 |
| FR000 | 000 |
| -Z0 | 0000 2000 |
| 002FB | NND 7NNO |
| 0-Z0 | 0)50 |
| PX000 | 01-0 |
| -Z-1-0 | 0,00 |
| 0030 | 0100 |
| 0-Z-0 | 01004 |
| PK00-0 | 2000 |
| -Z-F-0 | 200 |
| 1003F | 7007 |
| | |

FIG. 63(C)

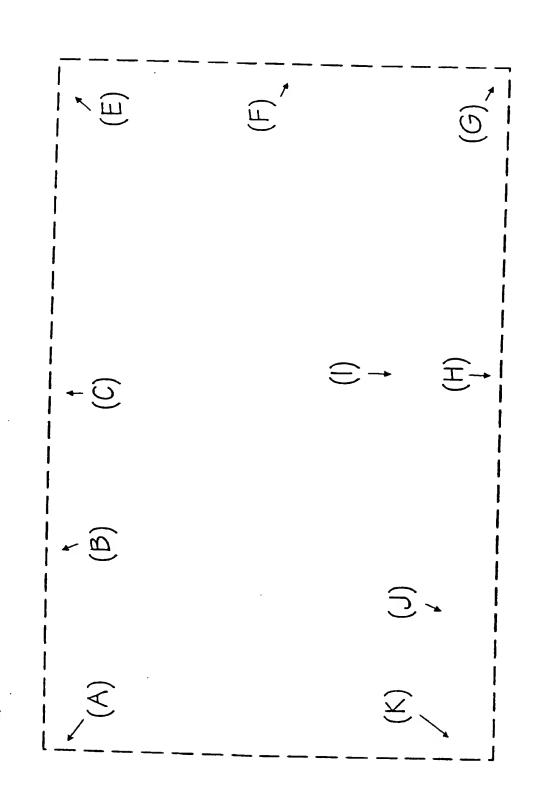
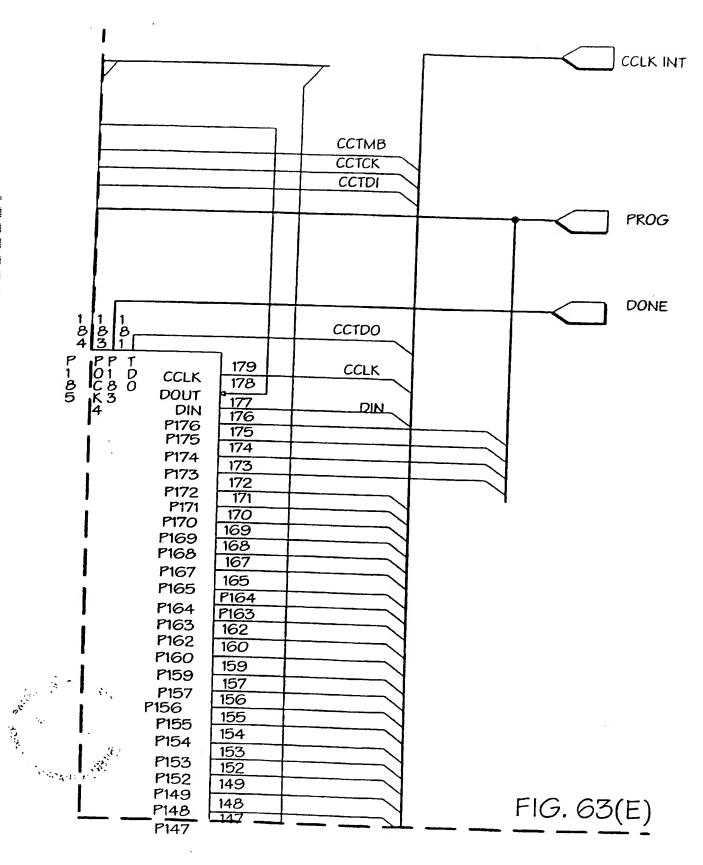
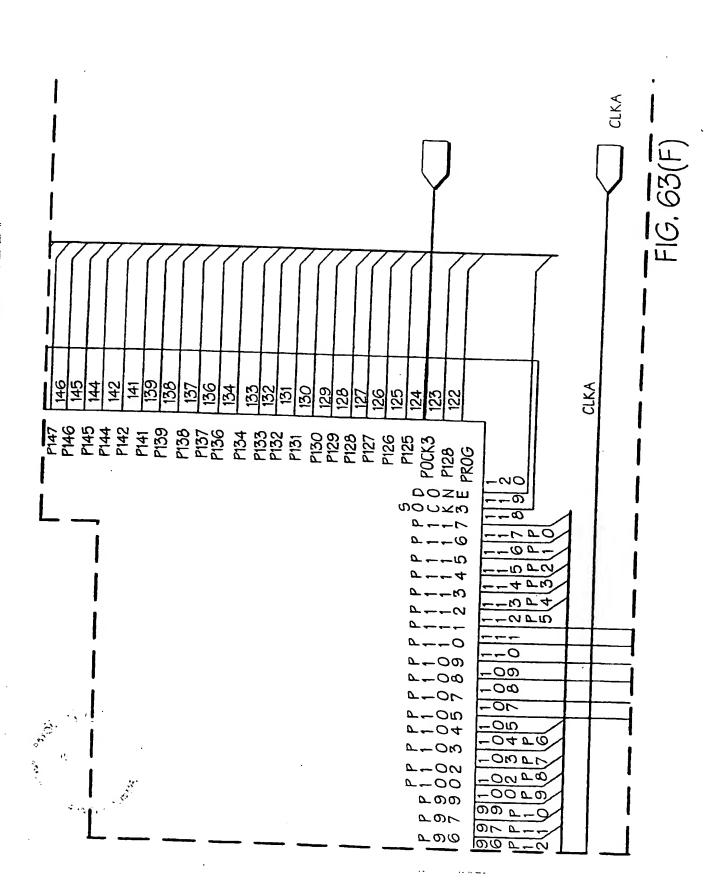


FIG. 63(D)





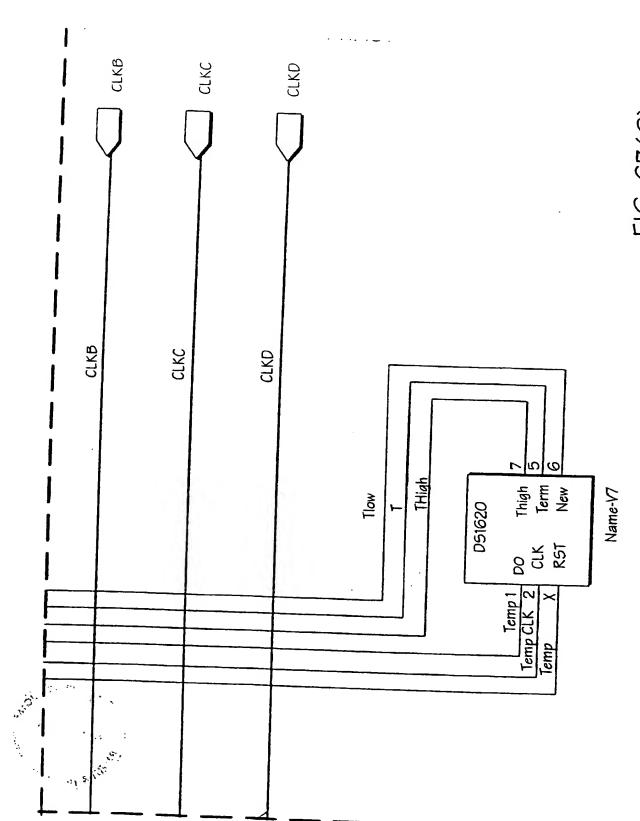
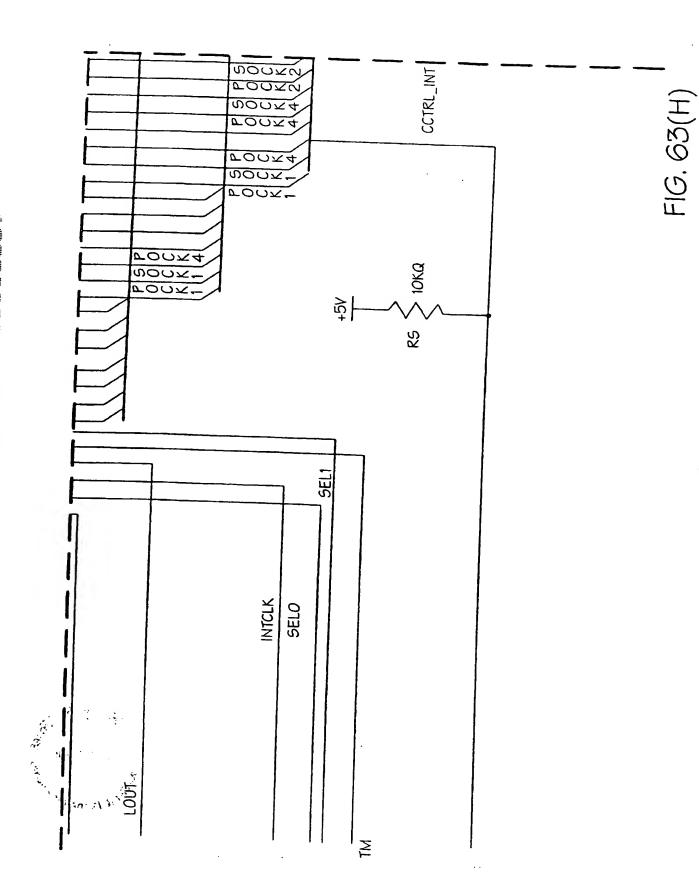
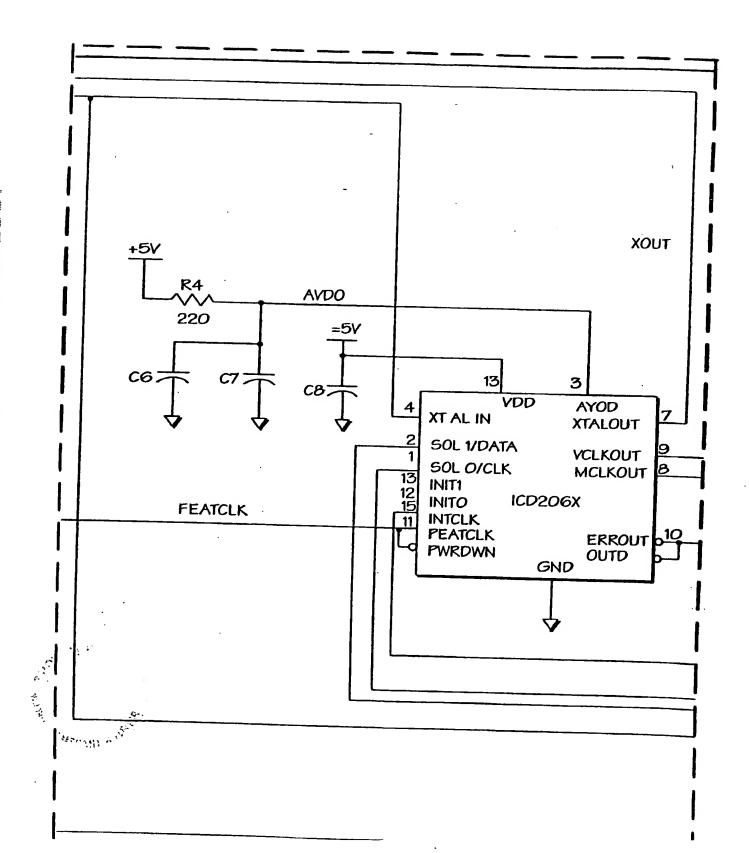
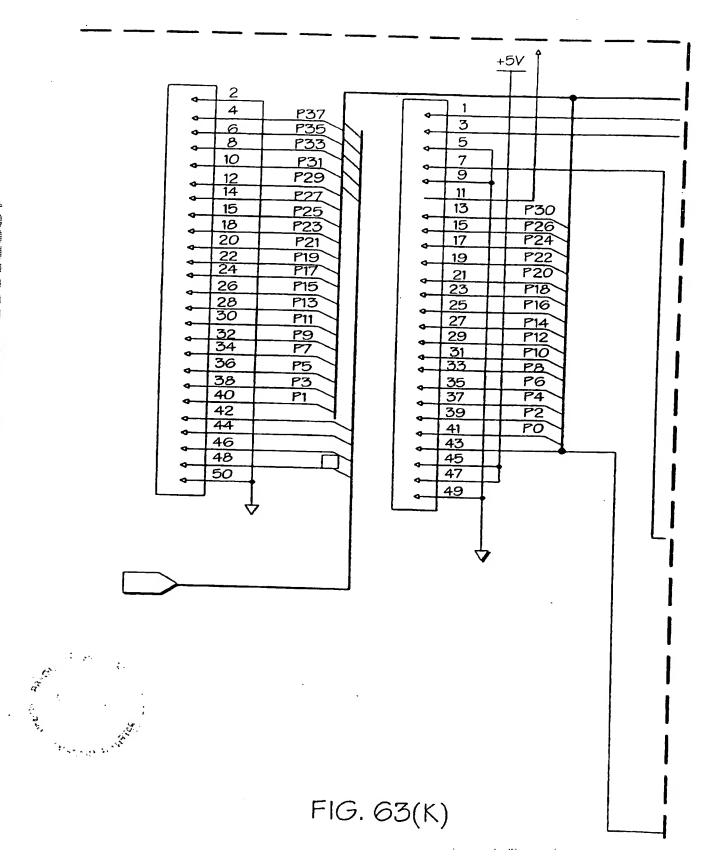


FIG. 63(G)



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| 700 | 9090 | | _] |
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| 88884444445008888 | | | |
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| P12 P13 P16 P16 P16 P16 P16 P16 P16 P16 P16 P16 | | | |
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| war in the first that | | VCLK MCLK | |
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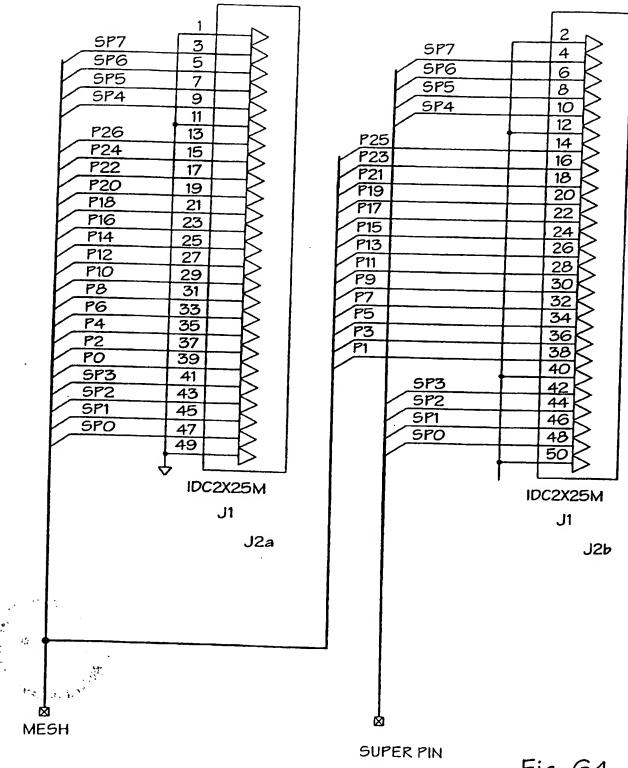
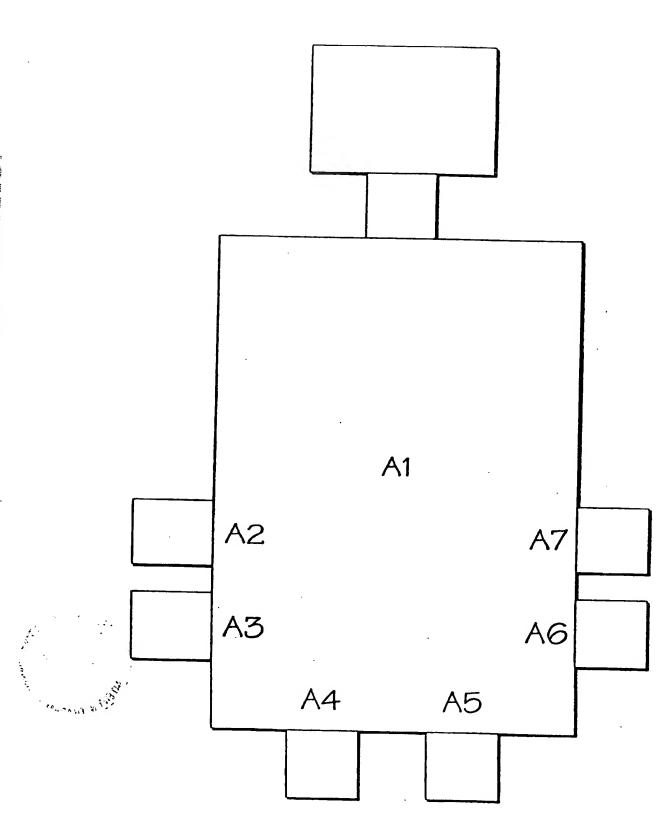


Fig. 64



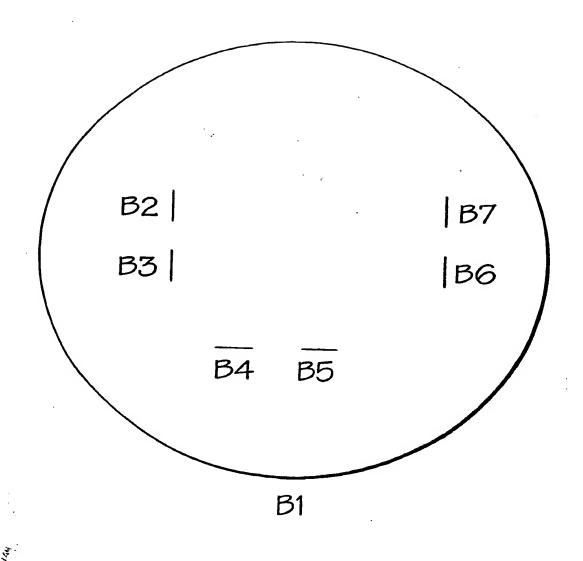
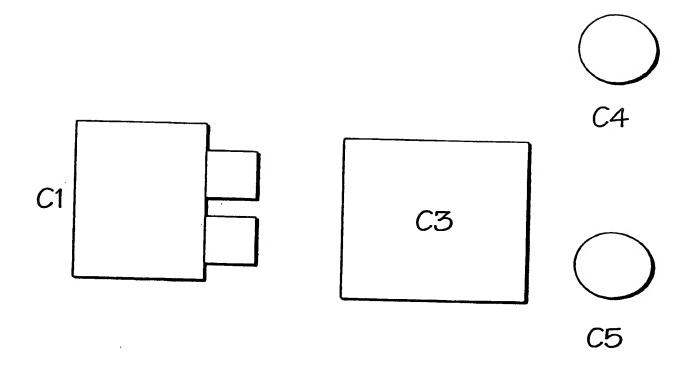
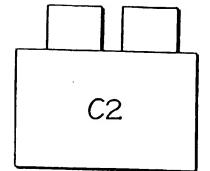
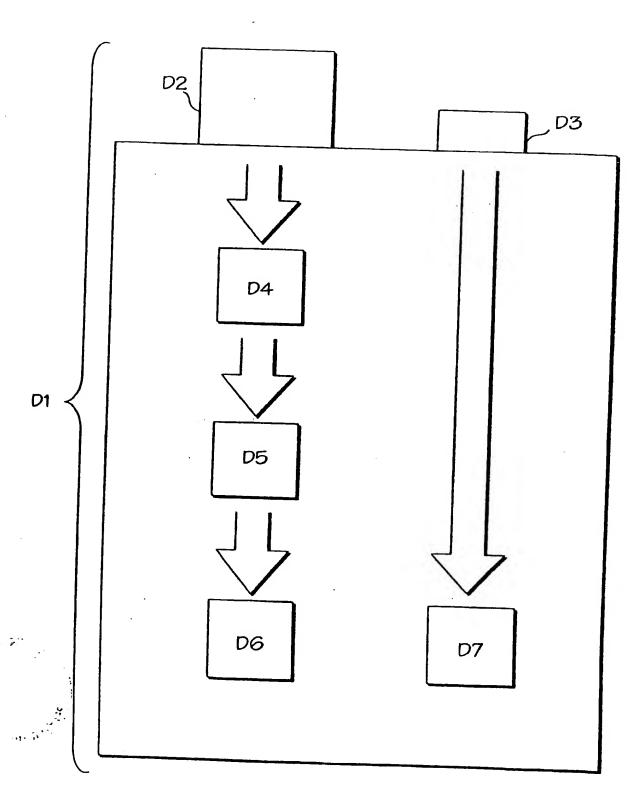
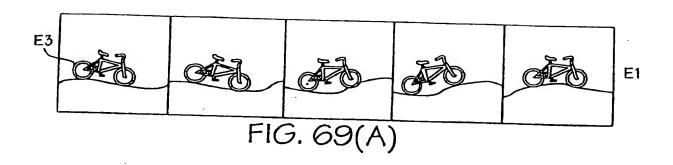


FIG. 66









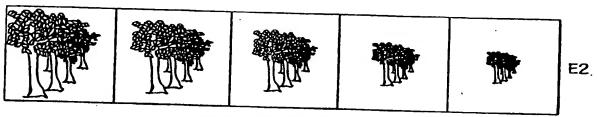
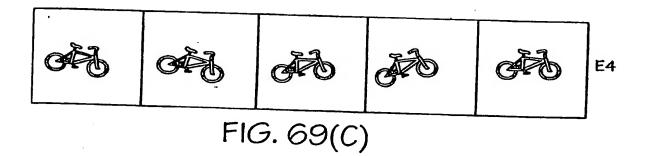


FIG. 69(B)



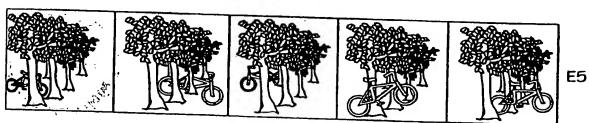


FIG. 69(D)